

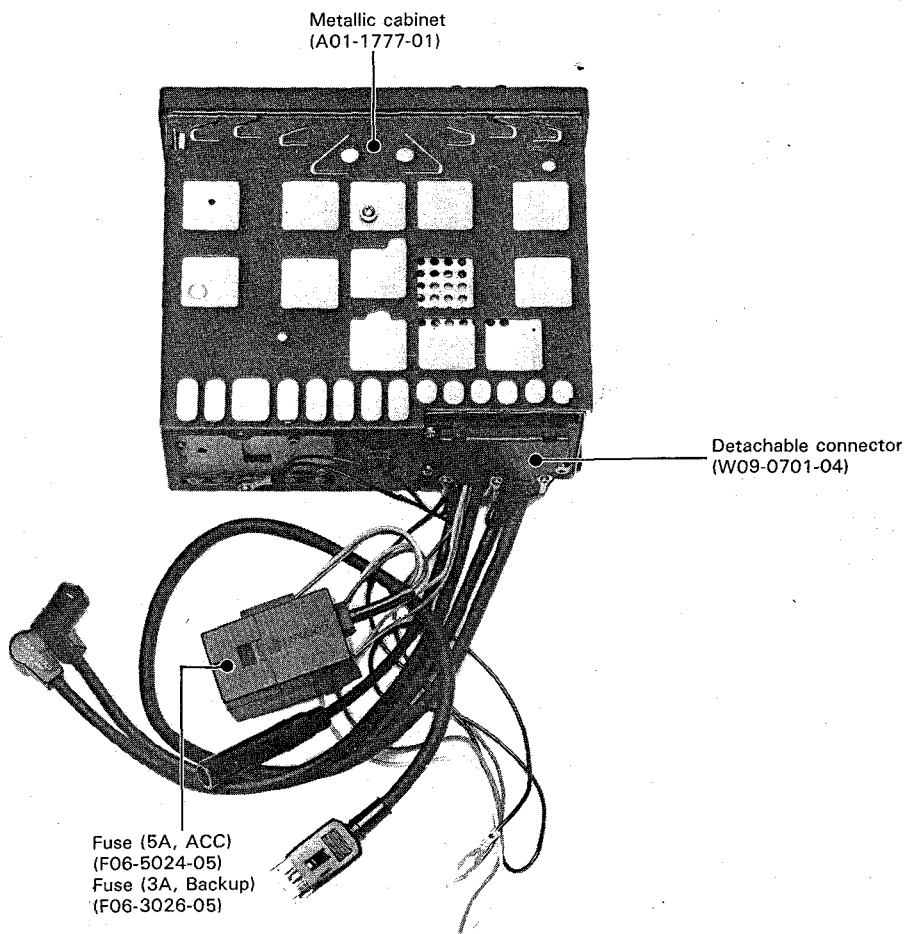
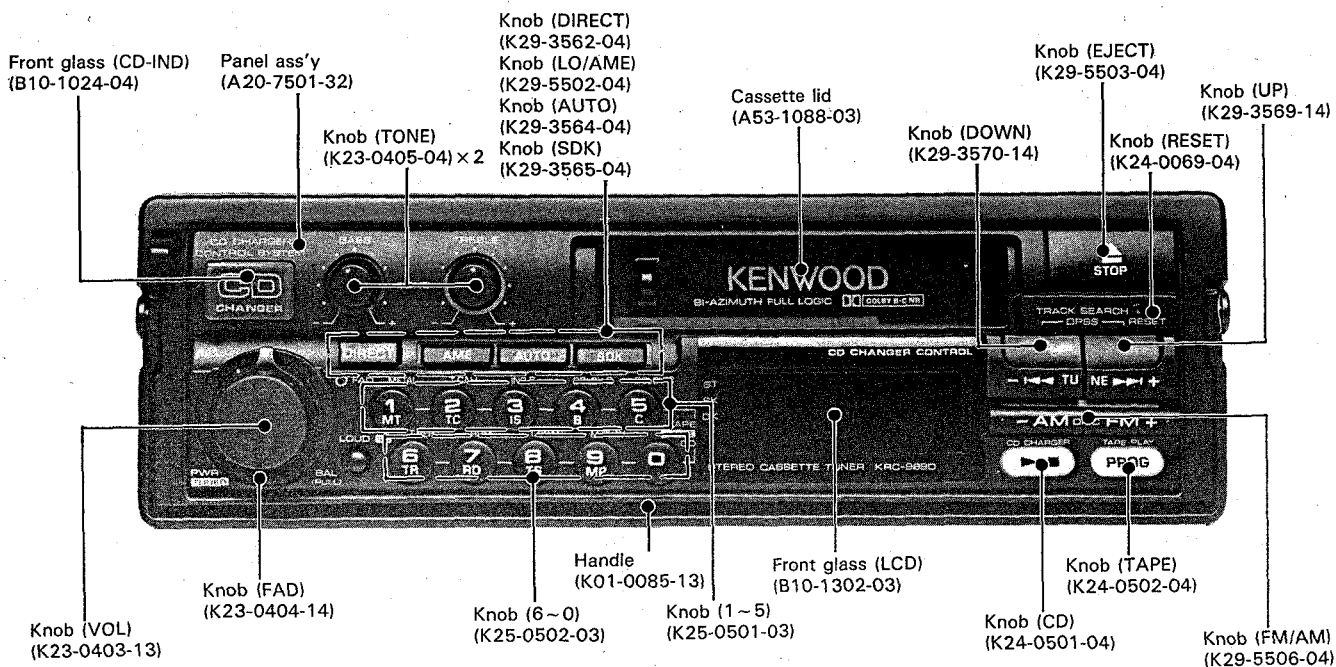
STEREO CASSETTE RECEIVER

KRC-989D

SERVICE MANUAL

KENWOOD

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B51-6039-00(T)1508



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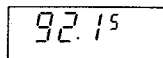
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FREQUENCY DISPLAY

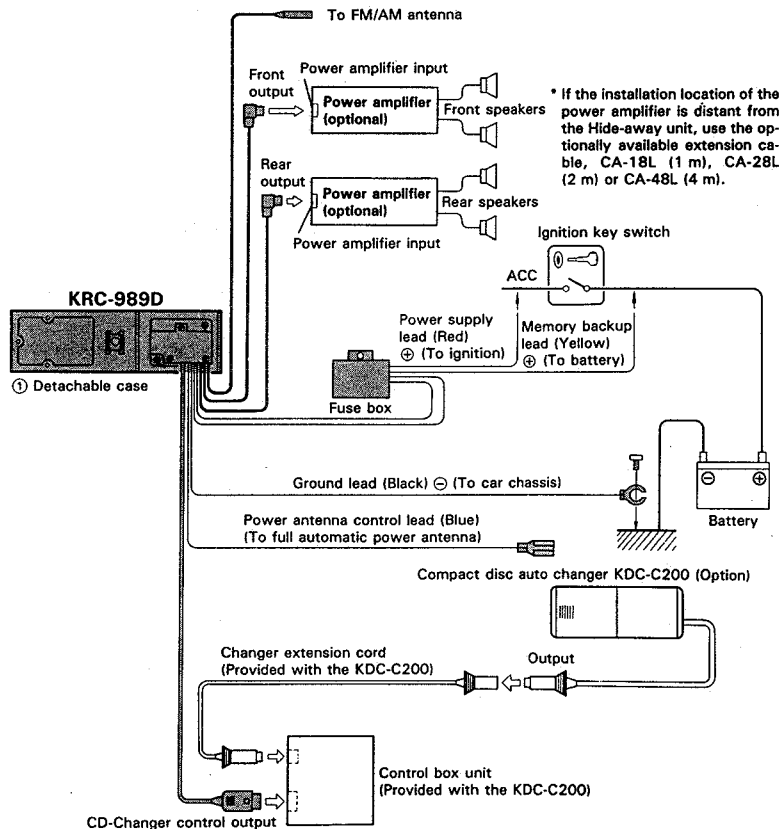
- For FM, final frequencies 50 kHz is represented respectively by " 5 " on the frequency display.

For example:

92.10 MHz → 

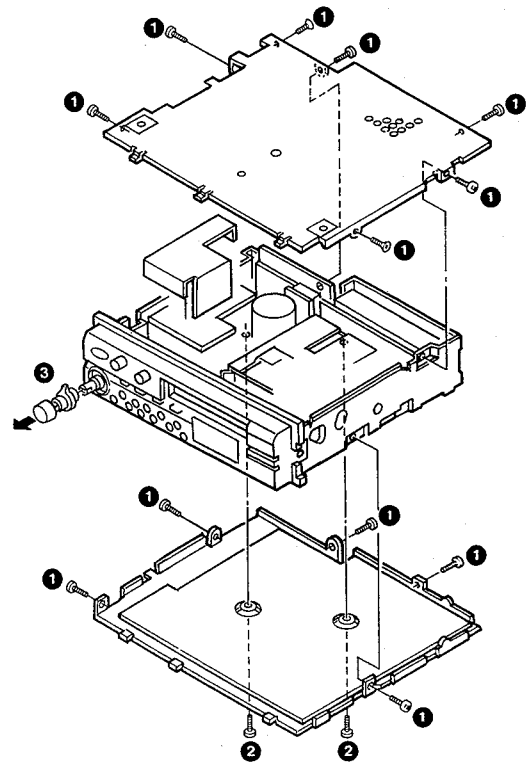
92.15 MHz → 

CONNECTIONS



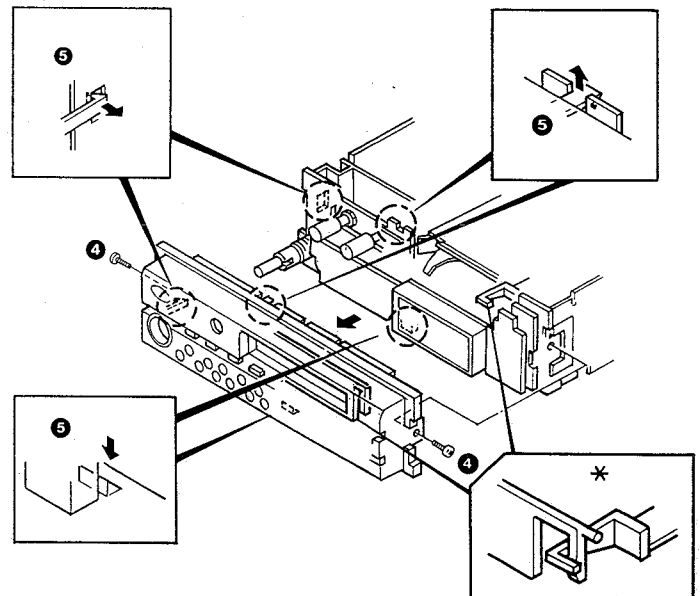
DISASSEMBLY FOR REPAIR

1. Remove the 12 screws (1).
2. Remove the two screws (2).
3. Take out the knob (3).



4. Remove the two screws (4).
5. Undo the catch of the front panel (5).

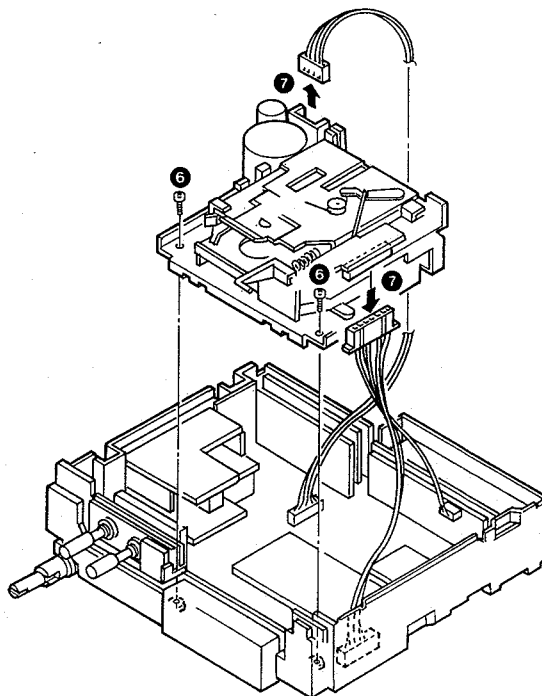
* When installing the front panel, put the cassette lid and the mechanism lever into alignment with each other as shown in the illustration.



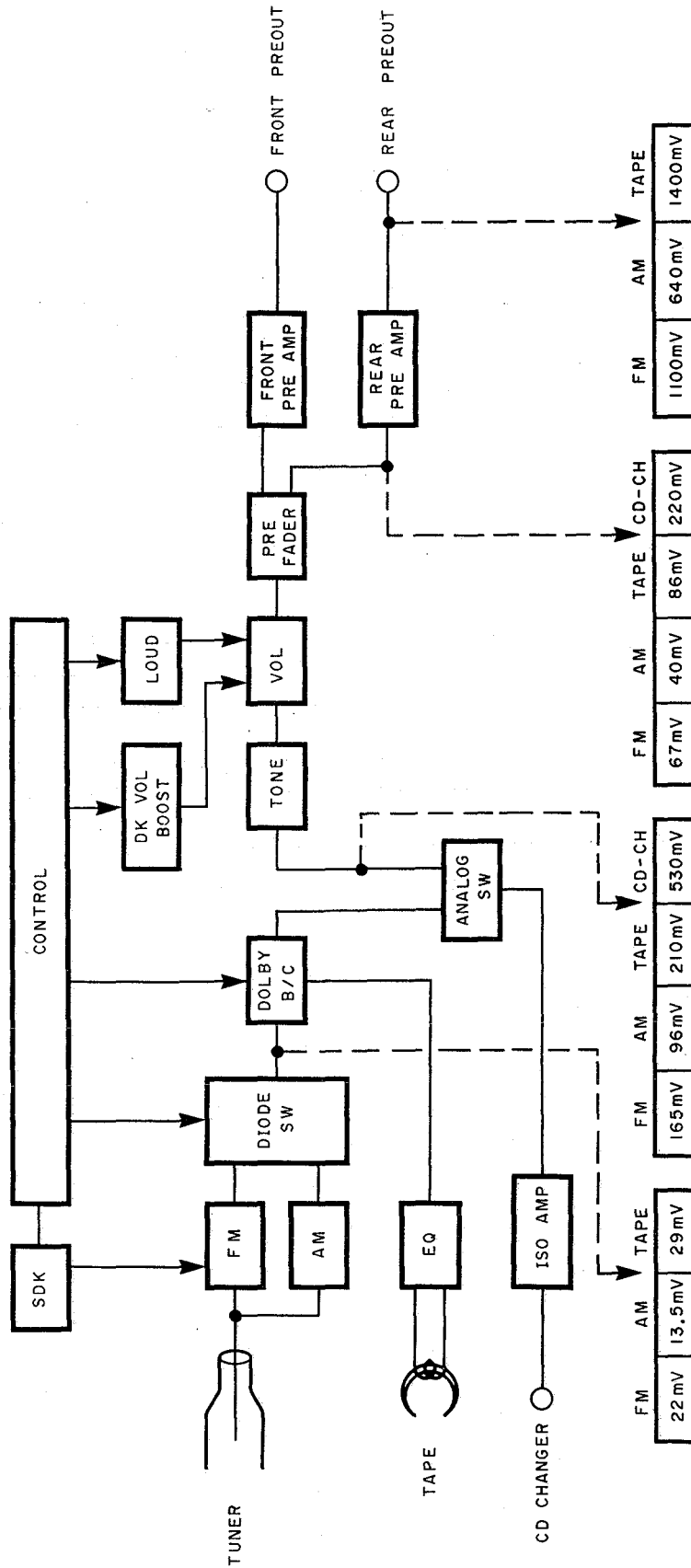
DISASSEMBLY FOR REPAIR

(Removing the mechanism)

6. Remove the two screws (6).
7. Disconnect the two connectors (7).



BLOCK & LEVEL DIAGRAM



KRC-989D(E)

CIRCUIT DESCRIPTION

SYNTHESIZER UNIT (X14-2612-70)

Ref. No.	Components	Use/Function	Operation/Condition/Compatibility
IC1	BA3708F	T-advance section-between-tunes de- tection IC	
IC2	LM7001	PLL IC	Constitutes AM pack, FM front-end local oscillator and PLL.
IC3	BA3900-V1	System power supply IC	<ul style="list-style-type: none"> Regulated power supply (COM 9V, FM 9V, AM 9V, microprocessor 5.6V) Outputs the muting signal in the standby mode.
Q1	2SD1469F	Mechanism plunger driver	
Q2	DTC124EK	SK lamp faulty-lighting inhibit switch	
Q3	DTC144EK	ST lamp lighting switch	
Q4	DTA144EK	AM AGC switch	
Q5	2SC2412K(S)	FM seek stop switch	
Q6	2SC2412K(S)	AM seek stop switch	
Q7	2SC2412K(S)	SD inverter	
Q8	DTA144EK	AMBS switch	
Q9	DTC124EK	Mechanism motor driver	
Q10	2SK669	PLL LPF for both FM and AM	
Q11	2SA1428 (O,Y)	Mechanism motor driver	
Q12,13	2SD1469F	Mechanism plunger driver	
Q14	2SA1037K	B.U. detection circuit	
Q15,18	DTC124EK	TAPE/RADIO selection switch	
Q16,17	DTC124EK	Dolby B/C/OFF selection switch	
Q19,20	2SD1757K	Loudness switch	
Q21,22	2SD1757K	Mute	
Q23 Q24	2SD1757K	Volume boost switch	
Q25,26	DTC144EK	ILL inhibit circuit	
Q27, Q28,29	DTC124EK 2SB822F	2-color ILL selection circuit	
Q30	2SB822F	Auto ILL driver	
Q31	2SB1181F5	—	
Q32	2SC2412K(S)	—	
Q100 Q101	DTC124EK 2SB822F	CD changer indication	With X88 CN4 56 pin CD-IND at "H", the changer lamp lights.
Q102 Q103	DTC124EK DTA124EK	Tuner ON/OFF, Power ON/OFF	
Q104 Q105	DTA124EK DTC144EK	Key scan detection switch	

ELECTRIC UNIT (X25-3642-70)

Ref. No.	Components	Use/Function	Operation/Condition/Compatibility
IC2,3	μPC4570G2		Preamplifier for front and rear
IC4	NJM5532MD	BUFF AMP	Tone amplifier
IC5	TC74HC04AF	Changer communication inverter	
IC6	μPD4066BG	Changer signal selection	
IC10	KC-855	Changer ISO amplifier	
Q1,2	DTC124EK	Changer input selection	
Q3 Q4	2SC2412K 2SB941	ILLM constant voltage	10 V
Q17 ~ 19	2SA1037K 2SC2412K 2SA1037K	P-CON output control	
Q20	2SA1428	P-CON output	
Q22	DTA124EK	RST output	

CIRCUIT DESCRIPTION

TUNER UNIT (X86-1142-70)

Ref. No.	Components	Use/Function	Operation/Condition/Compatibility
IC1	AN6556S	SDK IC	<ul style="list-style-type: none"> Demodulation and detection of BK and DK signals Logic generation for existence/nonexistence of BK and DK signals
IC2	TDA1579T	Input buffer, BK BPF	<ul style="list-style-type: none"> KC1 input pre-buffer Combined with KC1, forms a BPF that passes the higher zone of the BK signal frequencies.

FRONT-END UNIT (X86-1162-70)

Ref. No.	Components	Use/Function	Operation/Condition/Compatibility
IC1	IF3S201A	FM IF amplifier/detector	
IC2	EHD-DP1310	Noise canceller/MPX	
IC3	μ PC4570G2	Tape EQ amplifier	
Q1	2SC2413K	IF amplifier	
Q2	2SC2412K	ANRC driver	
Q3	2SC2412K	ANRC buffer	
Q5	2SC2412K	ST noise control	
Q6	DTC124EK	AFC control	
Q7,8	2SC2412K	Metal tape switch	
Q9,10	2SD1757K	EQ mute	

DOLBY NOISE REDUCTION UNIT (X87-1352-70)

Ref. No.	Components	Use/Function	Operation/Condition/Compatibility
IC1	CXA1098Q	Dolby B/C IC	RADIO/TAPE signal selection and amplification Dolby B/C decode

DIGITAL I/O UNIT (X88-1032-70)

Ref. No.	Components	Use/Function	Operation/Condition/Compatibility
IC1	75108G-E68-1B	Microprocessor	Key input acceptance PLL, display and mechanism control Others include control signal generation, each status input acceptance and mutual operation.
IC2	BU4069UBF TC4069UBF μ PD4069UBG	Inverter	Change from active "L" to active "H"
IC3,4	BU4081BF μ PD4081BG-T1	Alternate key switch	
IC5	TC4011BF BU4011BF μ PD4011 BG-T1	Auto ILL monostable multivibrator	
Q1	DTA144EK	Microprocessor mute inverter buffer	
Q2	DTC124EK	Audio mute driver	
Q3	2SA1037K		
Q4	DTC124EK	Auto ILL inverter buffer	
Q5	2SA1037K	P-ON mute generation circuit	
Q6	DTA144EK		
Q7	2SA1037K	Volume boost driver	
Q11	DTC124EK	DK inverter buffer	
Q12	2SA1037K	Loudness driver	
Q13	DTC144WK	Selectable ILL inverter	

CIRCUIT DESCRIPTION

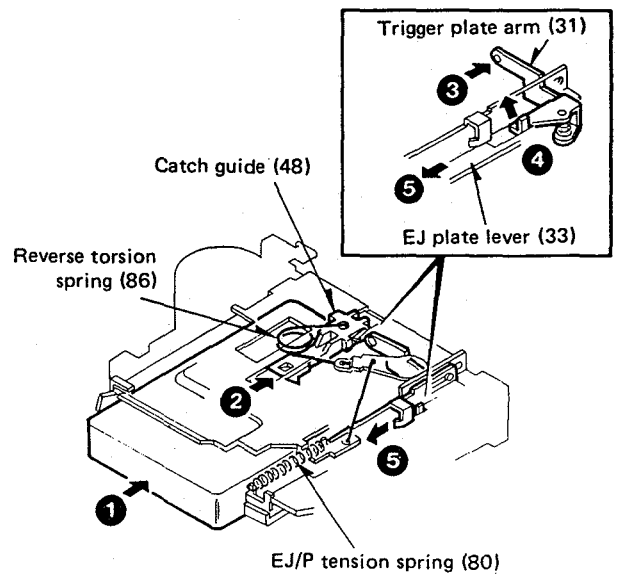
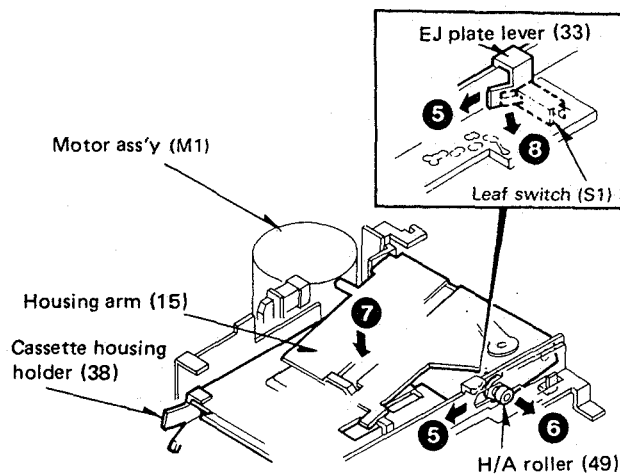
Ref. No.	Components	Use/Function	Operation/Condition/Compatibility
Q14	DTC124EK	Auto ILL inhibit	
Q18	2SC2412K	$\overline{\text{RST}}$ level shift	
Q19	DTC124EK		
Q20	DTC124EK	BS inverter buffer	
Q21	DTC124EK	REG. control	
Q22	DTA144EK	P-CON inverter buffer	
Q23	DTA144EK	$\overline{\text{FF}}$ inverter buffer	
Q24	DTA144EK	$\overline{\text{REW}}$ inverter buffer	
Q25	DTA144EK	PROG. inverter buffer	
Q26	DTA144EK	$\overline{\text{FM}}$ inverter buffer	
Q27	DTA144EK	$\overline{\text{MW}}$ inverter buffer	
Q28	DTA144EK	LW inverter buffer	
Q29	2SA1036K	P-ON 5.6V switch	
Q30	DTC124EK	IGN inhibit	During TPC switch ON, Q30 turns ON to perform compulsory power OFF.
Q31	DTC124EK	AGC cut inverter	
Q32	DTC143TK	Manual reset driver	
Q34	2SC2412K	Standby/reset Schmitt circuit	
Q35	2SA1037K		
Q36	DTC143TK	Auto RST driver	
Q37	DTA114EK	PACK IN 5.6V switch	
Q38	DTC144WK	Reel pulse shaper	
Q39	DTA144EK	Manual RST inverter	
Q40	DTA144EK	CD changer control	

MECHANISM DESCRIPTION

1. Loading

If the cassette tape is pressed by the finger, the catch guide (48) is pushed in and the reverse torsion spring (86) is set on the loading side. If the cassette is pushed into the end, the trigger plate arm (31) rotates and the EJ plate lever (33) is released. Then, EJ/P tension spring (80) pulls the EJ plate lever (33) and the housing arm (15) and cassette housing holder (38) are pushed down through the H/A roller (49). The head plate (803) is also moved to the mode plate lever ass'y (9). The leaf switch (S1) is also pressed. At this time, the plunger solenoid (103) is turned on and the motor ass'y (M1) rotates.

Note : The number in the parentheses refer to the Ref. Nos. in the exploded view. (P. 42)



MECHANISM DESCRIPTION

2. PLAY

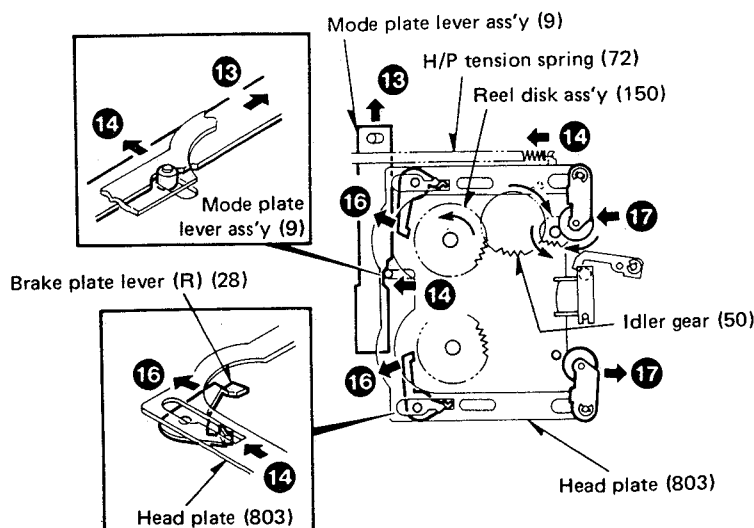
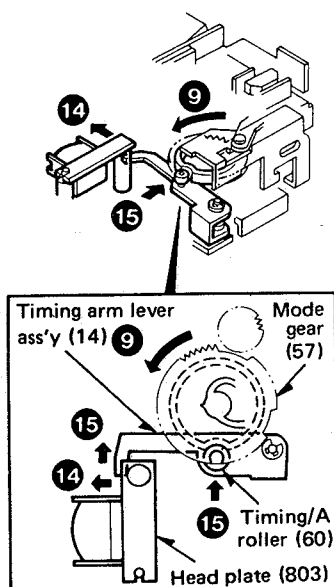
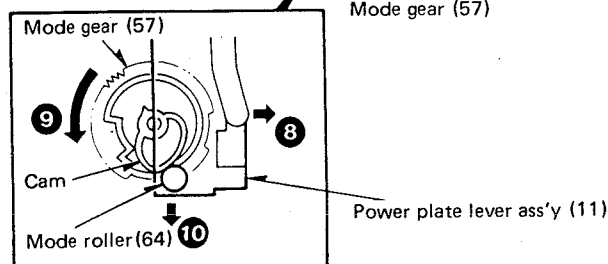
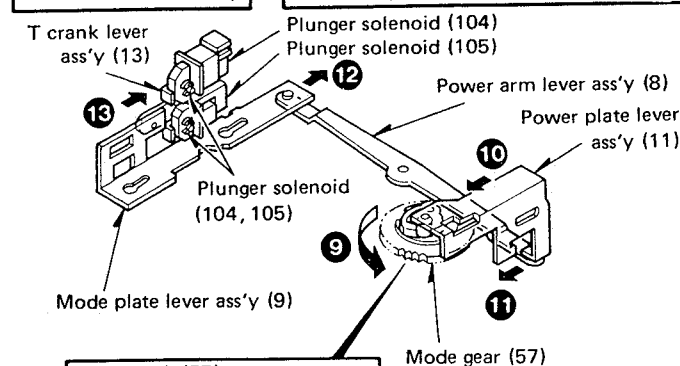
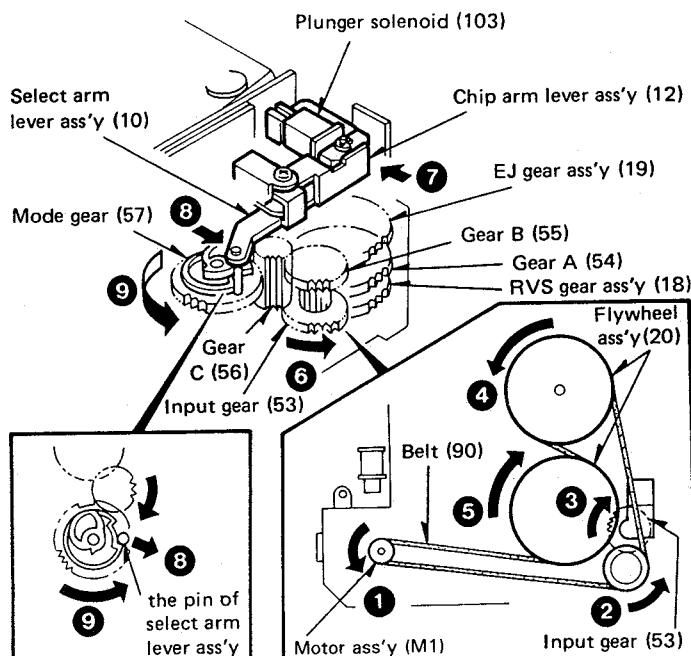
The rotation of the motor ass'y (M1) is transmitted through the belt (90) to the flywheel ass'y (20) to rotate the input gear (53). Next, gear A (54), gear B (55), and gear C (56) rotate. Then, the EJ gear ass'y (19) rotates to move the select arm lever ass'y (10) to the plunger solenoid (104, 105) side. As the result, the chip arm lever ass'y (12) is attracted by the plunger solenoid (103).

The other pin of the select arm lever ass'y (10) releases the mode gear (57). The mode gear (57) is rotated by gear C (56), and the power plate lever ass'y (11) is moved forward by the cam of the mode gear (57) through the mode roller (64). At the same time, the mode plate lever ass'y (9) is moved backward through the power arm lever ass'y (8). The mode plate lever ass'y (9) is attracted by the FF and REW solenoid (104, 105) through the T crank lever ass'y (13).

After the above operation, timing/A roller (60) of the timing arm lever ass'y (14) under the mode gear (57) is put in the groove of the cam of mode gear (57) to lock the gear. By this operation of the timing arm lever ass'y (14), the head plate (803) is pulled by the H/P tension spring (72) to the PLAY position.

The rotation of the flywheel ass'y (20) is transmitted from the inside gear to the idler gear (50) and reel disk ass'y (150). The brake plate levers (27, 28) applied to the reel disk ass'y (150) has been released by the head plate. In the PLAY mode, the mode gear (57), EJ gear ass'y (19), and RVS gear ass'y (18) are locked by the notches.

Note : If the power tension spring (84) is removed, the mechanism can be checked easily.

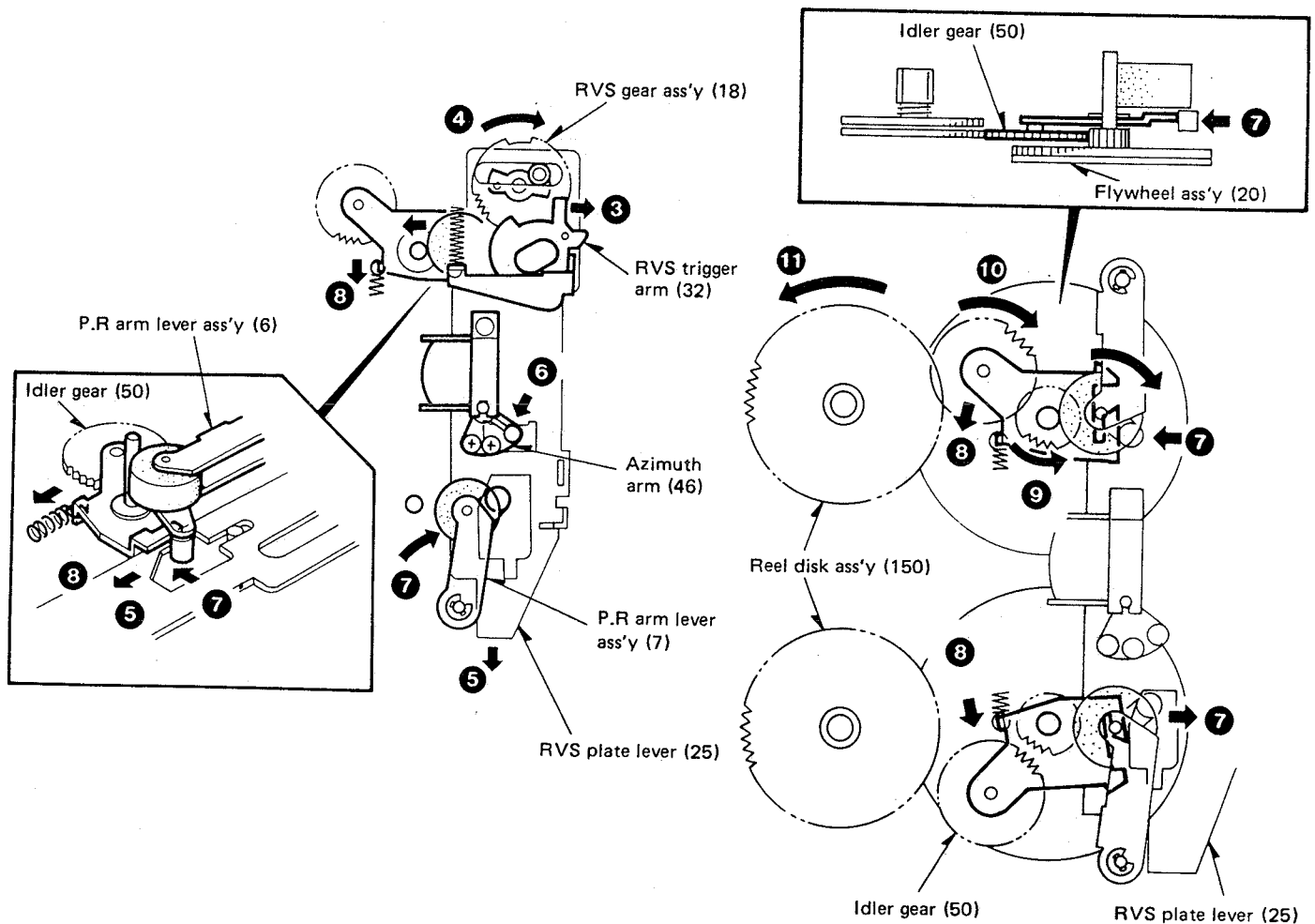
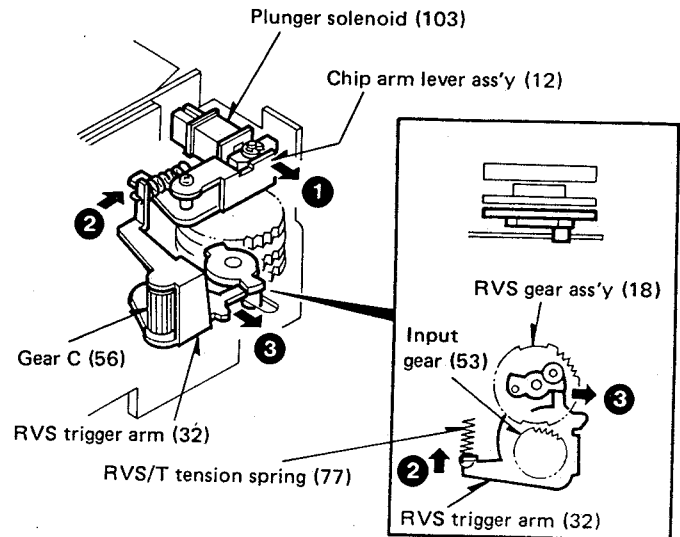


MECHANISM DESCRIPTION

3. PROG.

If the program button is pressed, the plunger solenoid (103) is turned off and the chip arm lever ass'y (12) is moved outward. At the same time, the RVS trigger arm (32) releases the RVS gear ass'y (18) through the RVS/T tension spring (77). Then, the RVS gear ass'y (18) is rotated a half turn by the input gear (53), and the RVS plate lever (25) is moved. At this time, the RVS trigger arm (32) is set to the lock side by the RVS gear ass'y (18), then the chip arm lever ass'y (12) is attracted again by the plunger solenoid (103) because of the force of the chip arm tension spring (78).

The RVS plate lever (25) moves the head slide switch (S2), azimuth arm (46), and P.R arm lever ass'y (6, 7). The P.R arm lever ass'y (6, 7) moves the idler gear (50) through the idler gear arm of the main chassis ass'y (801).



MECHANISM DESCRIPTION

4. FF/REW

If FF or REW button is pressed, the plunger solenoid (104) or (105) is turned off depending on the direction of PLAY, and the T crank lever ass'y (13) is rotated by the force of the power tension spring (84). At this time, the head plate (803) is moved a little backward by the movement of the mode plate lever ass'y (9). The FF crank arm (45) is rotated by the T crank lever ass'y (13) to slide the FF plate lever (26) and rotate the FF arm lever ass'y (5). Then, the rotation of the flywheel ass'y (20) is transmitted to the reel disk ass'y (150) through the FF gear ass'y (17).

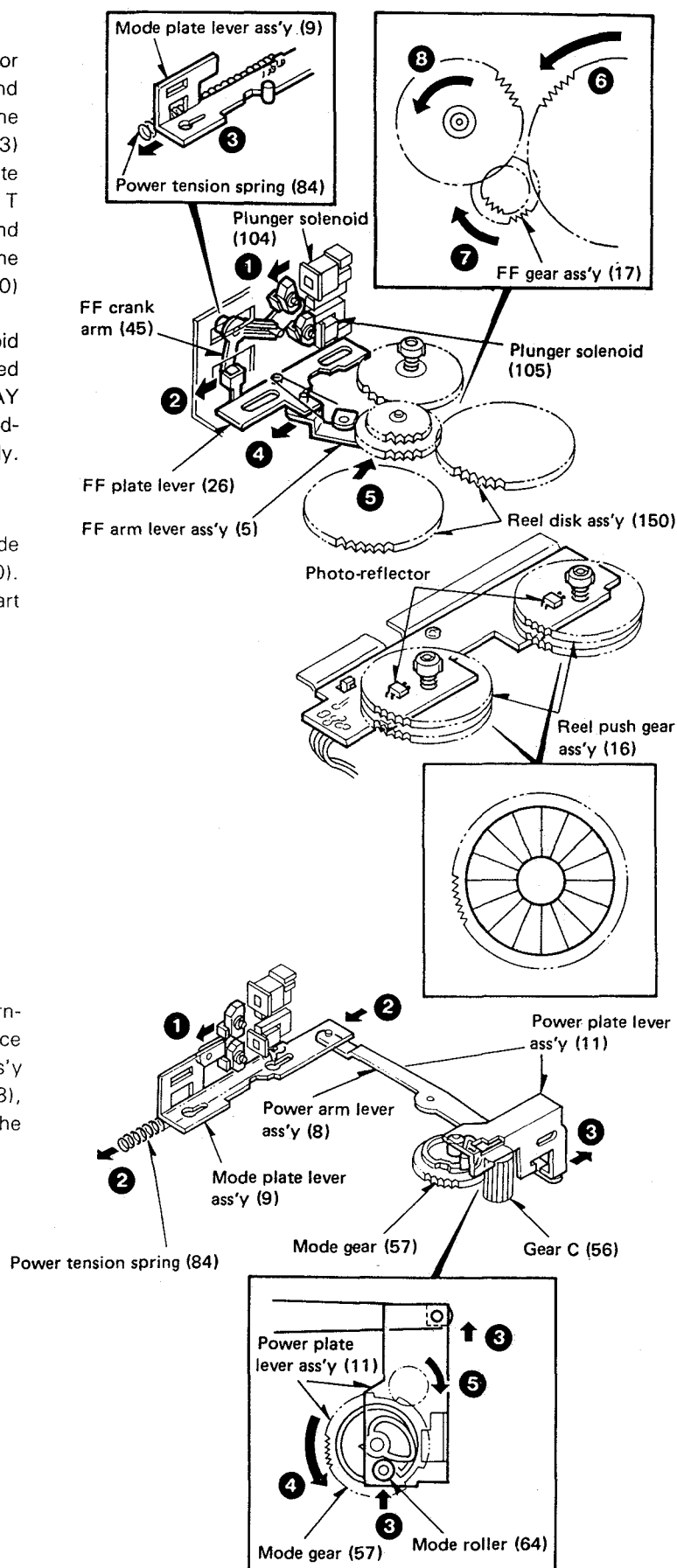
If the PLAY/PROG. button is pressed, both plunger solenoid (104, 105) are turned off and the head plate (803) is returned to the position after the loading, then it is reset to the PLAY mode by the rotation of the motor ass'y (M1). The tape advancing and index scanning operation is performed similarly.

5. Automatic reverse

The rotation is sensed by the photo-reflector on the back side of the reel push gear ass'y (16) of the reel disk ass'y (150). The sensed signal is input to the mechanism control IC to start the program.

6. Eject

If the eject button is pressed, all the plunger solenoid are turned off. The head plate (803) is moved backward by the force of the power tension spring (84). The power plate lever ass'y (11) is pushed back through the power arm lever ass'y (8), and the mode gear (57) is meshed with gear C (56) by the mode roller (64).



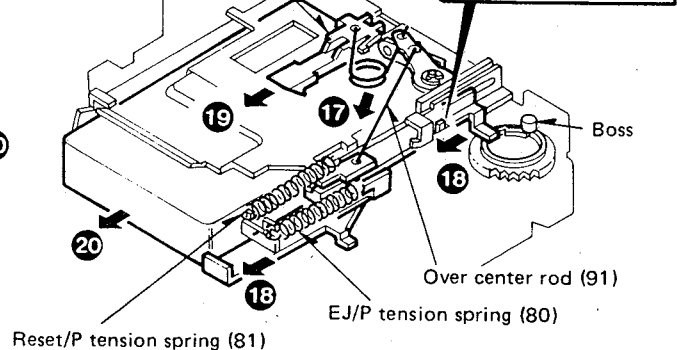
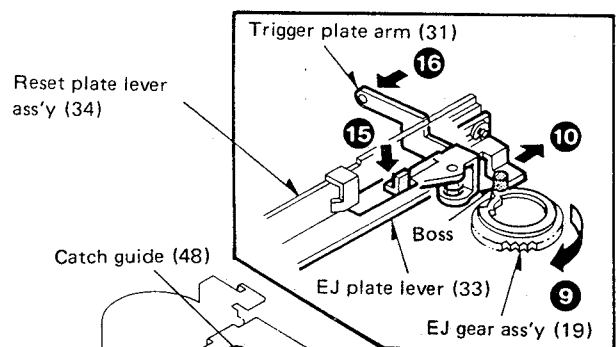
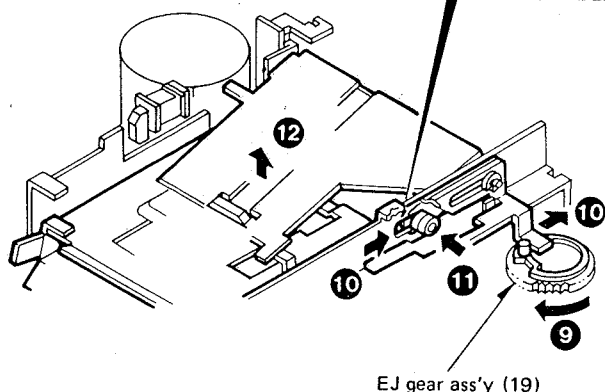
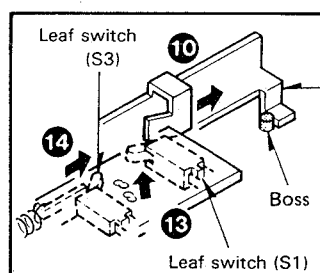
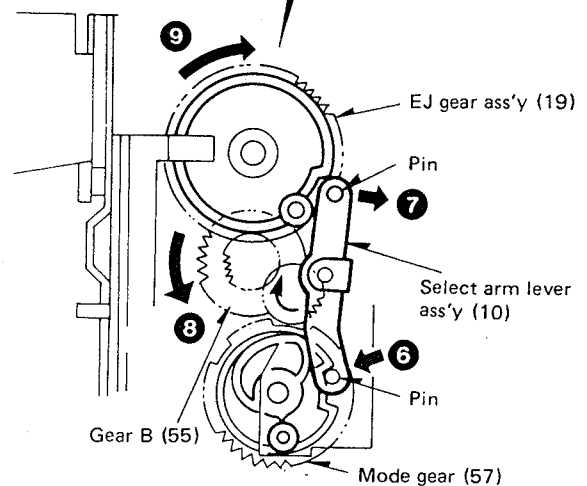
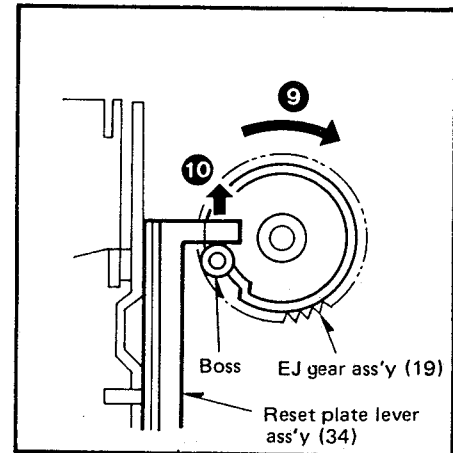
MECHANISM DESCRIPTION

The mode gear (57) is rotated and the pin of the select arm lever ass'y (10) is put in the groove of the peripheral cam of the mode gear. Then, the EJ gear ass'y (19) is meshed with gear B (55) and rotated by releasing the other pin of the select arm lever ass'y (10). The reset plate lever ass'y (34) is moved back by the upper boss of the EJ gear ass'y (19) to turn on the leaf switch (100) for ejection to turn on the motor.

At the same time, the EJ plate lever (33) is also moved back and fixed to the trigger plate arm (31) through the tension spring (87) for preventing an overload. While the reset plate lever ass'y (34) is moving back, the catch guide (48) is pushed forward through the over center rod (91). At this time, the cassette holding holder (38) is lifted by the EJ plate lever (33).

Then, the EJ gear ass'y (19) rotates. When its boss is parted from the reset plate lever ass'y (34), the reset plate lever ass'y (34) is returned to the forward position by the reset/P tension spring (81). At this time, the over center rod (91) is pulled, and the catch guide (48) is moved forward to discharge the cassette.

Even if the power switch is turned off, the loading operation can be performed, but the mechanism is set to the ejection mode immediately, because the loading mechanism is turned on by the leaf switch (S1) and the motor is turned on by the leaf switch (S3) to start the ejection operation.



ADJUSTMENT

Set the controls and switches as follows.

BALANCE: center position LOUD : OFF LOCAL: OFF
 FADER : center position T-ADV : OFF AUTO : OFF
 BASS : center position METAL : OFF
 TREBLE : center position DOLBY NR : OFF

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER (RECEIVER) SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION							
1.	DISCRIMINATOR	(A) 98.1MHz 0 dev 60dB μ (ANT input)	Connect the DC voltmeter between pins of TP1.	FM 98.1MHz	L2 (X86)	0V	(a)
2	SEPARATION	(C) 98.1MHz 1kHz, ± 33.5 kHz dev Pilot: ± 7.5 kHz dev Selector: L or R 60dB μ (ANT input)	(B)	FM 98.1MHz	VR4 (X86)	Adjust it so that the crosstalk from L to R and R to L become minimum.	
3	ANRC	(C) 98.1MHz 1kHz, ± 33.5 kHz dev Pilot: ± 7.5 kHz dev Selector: L or R 35dB μ (ANT input)	(B)	FM 98.1MHz	VR1 (X86)	Separation 10 dB	
4	SEEK STOP LEVEL	(A) 98.1MHz 1kHz, ± 40 kHz dev 20dB μ (ANT input)	—	FM SEEK: ON 98.1MHz	VR2 (X86)	STOP	
5	SOFT MUTE LEVEL	(A) 98.1MHz 1kHz, ± 40 kHz dev 60dB μ →No input	(B)	FM 98.1kHz	VR3 (X86)	Output Noise level — 25dB μ (When not add any signal to ANT terminal)	
SDK SECTION							
7	DK LEVEL	(E) 98.1MHz 0 mod SK 5.33% DK 30% BK 60% 60dB μ (ANT input)	Connect the AC voltmeter to TP2. (X14)	FM 98.1MHz SDK: OFF	L1 VR1 (X14)	Maximum	(b)
AM SECTION							
(1)	STOP LEVEL	(D) 990kHz 400Hz, 30% mod 35dB μ (ANT input)	—	AM 990kHz	VR2 (X14)	STOP	
CASSETTE DECK SECTION							
[1]	AZIMUTH	MTT-114 10kHz	(B)	TAPE PLAY	Head Azimuth Screw	Adjust the azimuth for each L CH/R CH or FWD/RVS becomes maximum.	(c)
[2]	PLAYBACK LEVEL	MTT-150	Connect a AC voltmeter to TP. (X14)	TAPE PLAY	VR5 (L) VR6 (R) (X86)	452mV	(d)

SDK and Dolby check pins:

The set of this time is not provided with SDK and Dolby check pins, with which conventional sets are provided.

These two, adjustments are to be performed in the check land

(pattern) of the mother board (through the hole made on the bottom plate).

REGLAGES

Régler les controles et les boutons comme suit.

BALANCE: position centre LOUD : OFF LOCAL: OFF
 FADER : position centre T-ADV : OFF AUTO : OFF
 BASS : position centre METAL : OFF
 TREBLE : position centre DOLBY NR : OFF

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER (AMPLI TUNER)	POINTS DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION MF							
1	Discriminateur	(A) 98,1MHz 0 dév., 60dB μ (entrée ANT)	Raccorder le voltmètre CC entre les deux broches de TP1.	FM 98,1MHz	L2 (X86)	0V	(a)
2	Séparation	(C) 98,1MHz 1kHz, $\pm 33,5$ kHz dév, Pilote: $\pm 7,5$ kHz dév, Sélecteur: L ou R 60dB μ (entrée ANT)	(B)	FM 98,1MHz	VR4 (X86)	Ajuster de sorte que la diaphonie de L à R et de R à L soit minimum.	
3	ANRC	(C) 98,1MHz 1kHz, $\pm 33,5$ kHz dév. Pilote: $\pm 7,5$ kHz dév. Sélecteur: L ou R 35dB μ (entrée ANT)	(B)	FM 98,1MHz	VR1 (X86)	Séparation 10 dB	
4	Niveau d'arrêt de recherche	(A) 98,1MHz 1kHz, ± 40 kHz dév. 20dB μ (entrée ANT)	—	FM Recherche: En service 98,1MHz	VR2 (X86)	Arrêt	
5	Niveau sourdine douce	(A) 98,1MHz 1kHz, ± 40 kHz dév. 60dB μ → Pas d'entrée	(B)	FM 98,1kHz	VR3 (X86)	Niveau de bruit en sortie - 25dB μ (Quand aucun signal ajouté à la borne ANT)	
SECTION SDK							
7	Niveau de DK	(E) 98,1MHz 0 et SK 5,33% DK 30% BK 60% 60dB μ (entrée ANT)	Connecter un voltmètre CA les TP2. (X14)	FM 98,1MHz SDK: Hors service	L1 VR1 (X14)	Maximum	(b)
SECTION MA							
(1)	Niveau d'arrêt	(D) 990kHz 400Hz, 30% mod 35dB μ (entrée ANT)	—	AM 990kHz	VR2 (X14)	Arrêt	
SECTION DU MAGNETPHONE							
[1]	Azimut	MTT-114 10kHz	(B)	Lecture de bande	Vis d'azimut de tete	Ajuster l'azimut pour que chaque L CH/R CH ou FWD/RVS devienne maximal.	(c)
[2]	Niveau de lecture	MTT-150	Connecter un voltmètre CA les TP. (X14)	Lecture de bande	VR5 (G) VR6 (D) (X86)	452mV	(d)

Broches de vérification SDK et Dolby:

Cet appareil n'est pas pourvu des broches de vérification SDK et Dolby qui existent sur les appareils conventionnels.
 Ces deux ajustements doivent être effectués dans la plage de

vérification (motif) de la carte mère (par l'orifice prévu sur la plaque de fond).

ABGLEICH

Die Regler und Knöpfe wie folgt einstellen.

BALANCE: Mittelage LOUD : OFF LOCAL: OFF
 FADER : Mittelage T-ADV : OFF AUTO : OFF
 BASS : Mittelage METAL : OFF
 TREBLE : Mittelage DOLBY NR : OFF

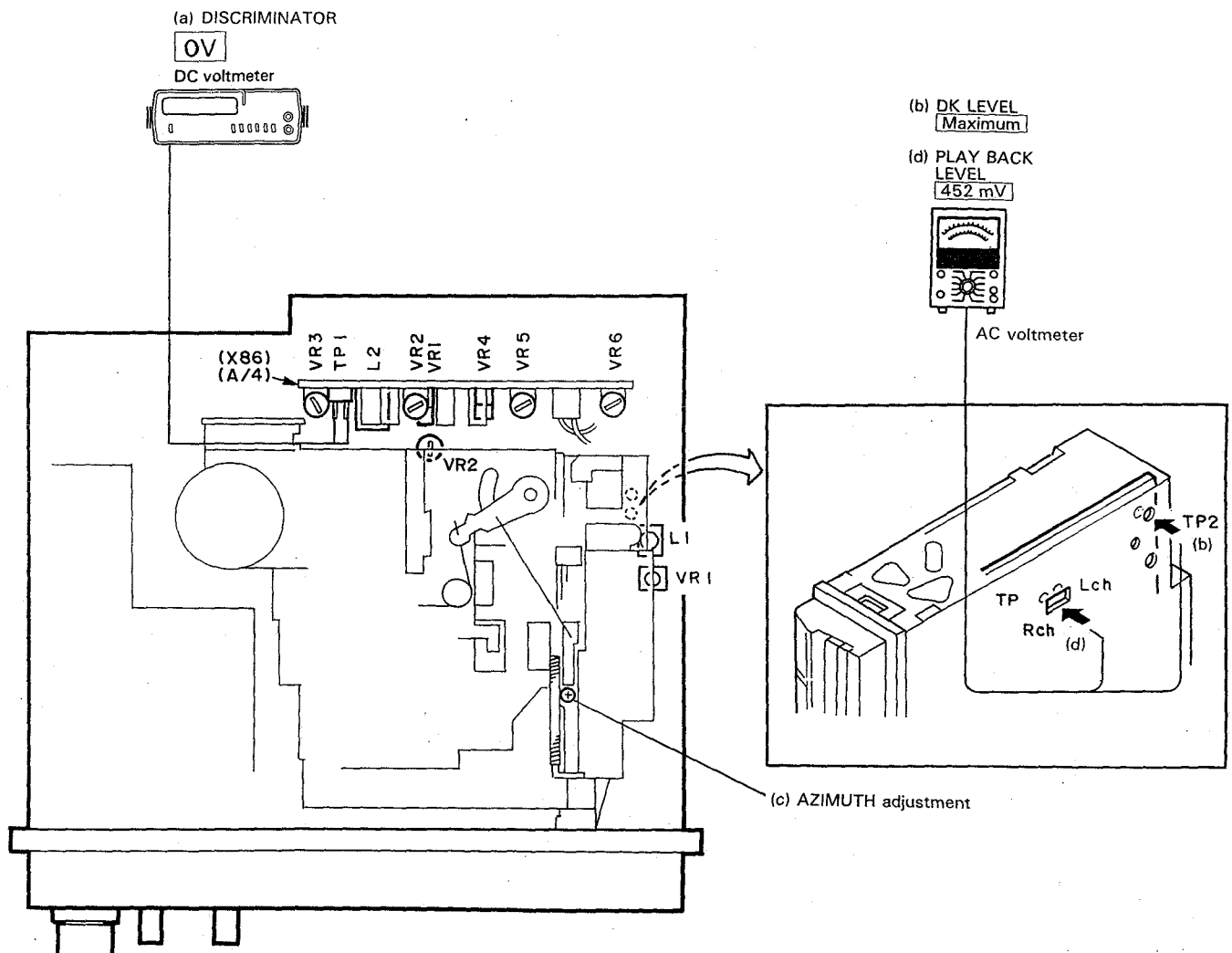
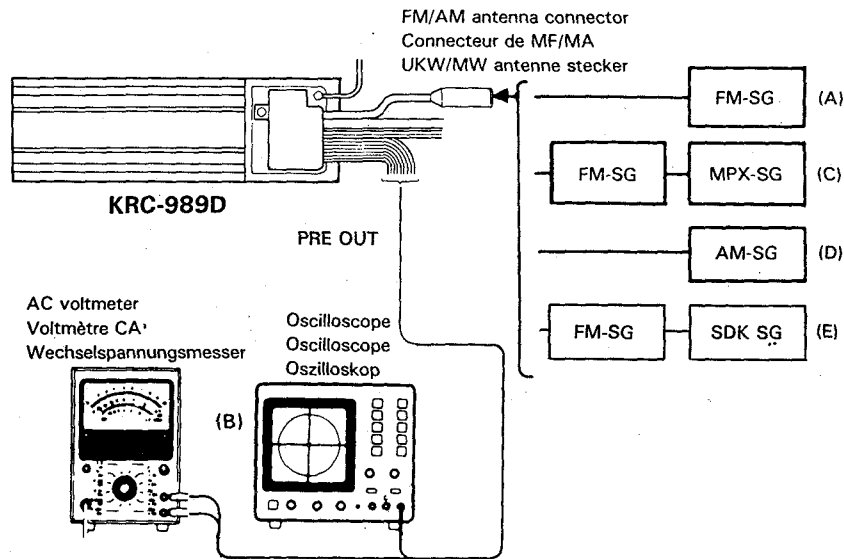
NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	TUNER (RECEIVER)-EINSTELLUNG	ABGLEICH PUNKTE	ABGLEICHEN FÜR	ABB.
UKW-ABTEILUNG							
1	DISKRIMINATOR	(A) 98,1MHz 0 Hub 60dB μ (ANT-Eingang)	Das Gleichstrom-Voltmeter zwischen den Stiften von TP1 anschließen.	FM 98,1MHz	L2 (X86)	0V	(a)
2	TRENNUNG	(C) 98,1MHz 1kHz, $\pm 33,5$ kHz Hub Pilot: $\pm 7,5$ kHz Hub Wähler: L oder R 60dB μ (ANT-Eingang)	(B)	FM 98,1MHz	VR4 (X86)	So einstellen, daß das Übersprechen von L zu R und von R zu L minimal wird.	
3	ANRC	(C) 98,1MHz 1kHz, $\pm 33,5$ kHz Hub Pilot: $\pm 7,5$ kHz Hub Wähler: L oder R 35dB μ (ANT-Eingang)	(B)	FM 98,1MHz	VR1 (X86)	Trennung 10 dB	
4	SUCHLAUF-STOPPEL	(A) 98,1MHz 1kHz, ± 40 kHz Hub 20dB μ (ANT-Eingang)	—	FM SUCHLAUF: ON 98,1MHz	VR2 (X86)	STOP	
5	DÄMPFUNGSPEL	(A) 98,1MHz 1kHz, ± 40 kHz Hub 60dB μ → Kein Eingang	(B)	FM 98,1kHz	VR3 (X86)	Ausgangsrauschpegel – 25dB μ (Kein Signal an den ANT-Anschluß anlegen.)	
SDK-ABTEILUNG							
7	DK-PEL	(E) 98,1MHz 0 Mod. SK 5,33% DK 30% BK 60% 60dB μ (ANT-Eingang)	Eine Wechselspannungsmesser zwischen zu TP2 anschließen.	FM 98,1MHz SDK: OFF	L1 VR1 (X14)	Maximum	(b)
MW-ABTEILUNG							
(1)	STOP-PEL	(D) 990kHz 400Hz, 30% Mod. 35dB μ (ANT-Eingang)	—	AM 990kHz	VR2 (X14)	STOP	
CASSETTEN-DECK-ABTEILUNG							
[1]	AZIMUTH	MTT-114 10kHz	(B)	KASSETTEN-WIEDERGABE	Kopfazimuthschraube	Den Azimuth so einstellen, daß der linke/rechte Kanal oder FWD/RVS maximal wird.	(c)
[2]	WIEDERGABEPEL	MTT-150	Ein Wechselstrom-Voltmeter an TP anschließen. (X14)	KASSETTEN-WIEDERGABE	VR5 (links) VR6 (rechts) (X86)	452mV	(d)

SDK -und Dolby-Prüfstifte:

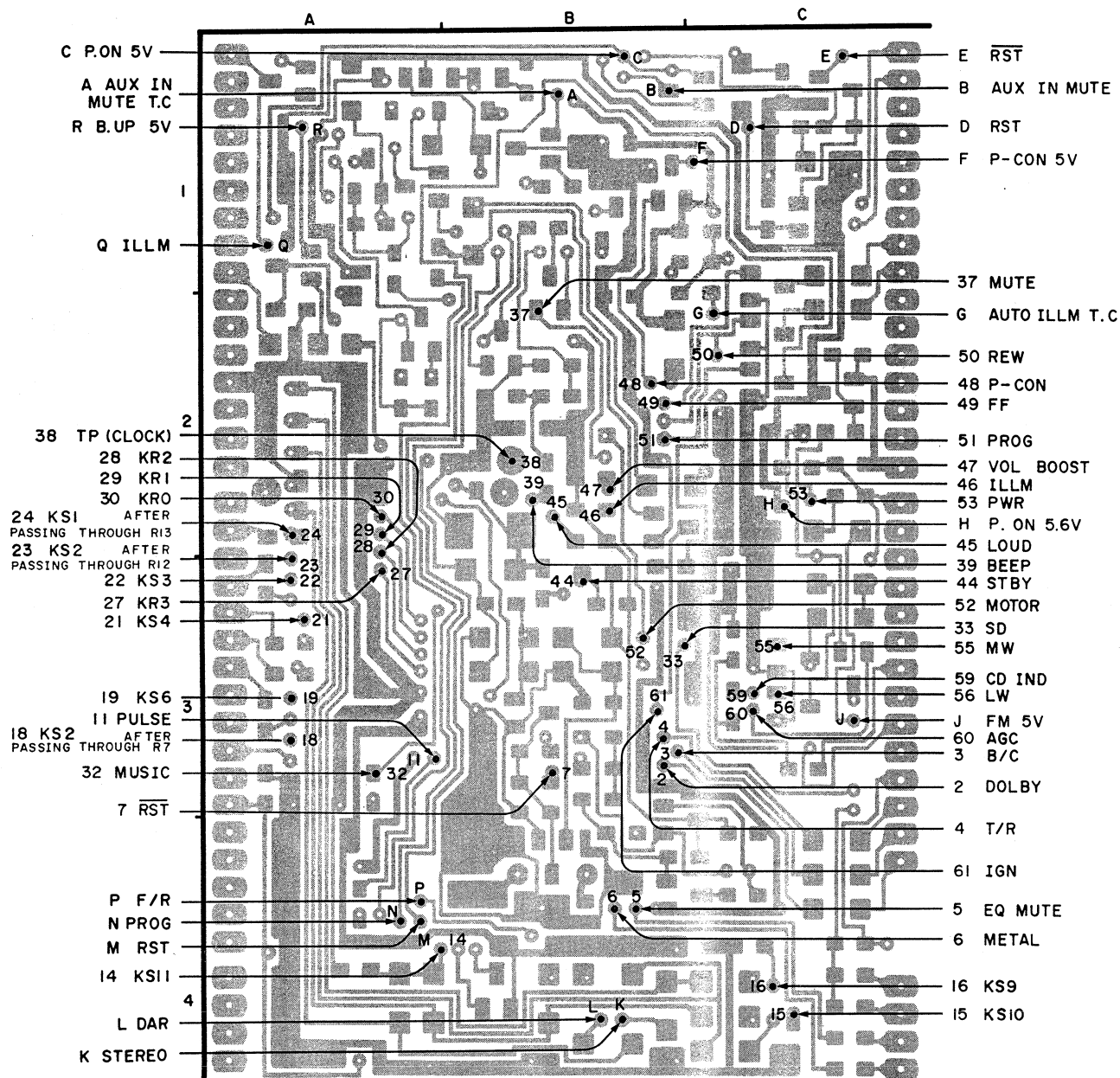
Dieses Gerät verfügt nicht über SDK -und Dolby-Prüfstifte, die normale Geräte aufweisen.

Diese beiden Einstellungen erfolgen auf der Prüf-Anschlußfläche (Muster) der Mutterplatine (durch die Öffnung in der Bodenplatte).

ADJUSTMENT/REGLAGES/ABGLEICH



CHECK POINT



Ref./NO.	Address	Description
2	B-3	DOLBY
3	B-3	B/C
4	B-3	T/R
5	B-4	EQ MUTE
6	B-4	METAL
7	B-3	RST
11	A-3	PULSE
14	B-4	KSII
15	C-4	KS10
16	C-4	KS9
18	A-3	KS2
19	A-3	KS6
21	A-3	KS4
22	A-3	KS3

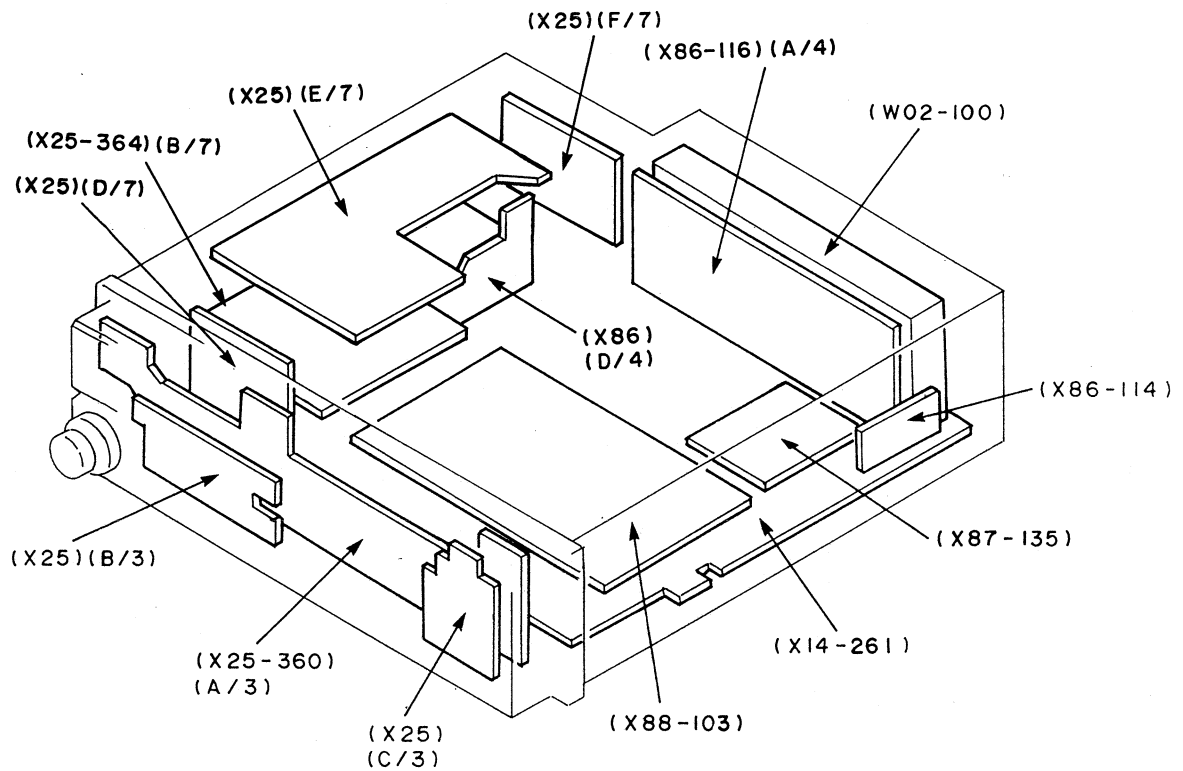
Ref./NO.	Address	Description
23	A-3	KS2
24	A-2	KS1
27	A-3	KR3
28	A-2	KR2
29	A-2	KRI
30	A-2	KRO
32	A-3	MUSIC
33	B-3	SD
37	B-2	MUTE
38	B-2	TP (CLOCK)
39	B-2	BEEP
44	B-3	STBY
46	B-2	ILLM
47	B-2	VOL. BOOST

Ref./NO.	Address	Description
48	B-2	P-CON
49	B-2	FF
50	C-2	REW
51	B-2	PROG
52	B-3	MOTOR
53	C-2	PWR
55	C-3	MW
56	C-3	LW
59	C-3	CD IND
60	C-3	AGC
A	B-1	AUX IN MUTE T.C
B	B-1	AUX IN MUTE
C	B-1	P.ON 5V
D	C-1	RST

Ref./NO.	Address	Description
E	C-1	RST
F	C-1	P-CON 5V
G	C-2	AUTO ILLM T.C
H	C-2	P.ON 5.6V
J	C-3	FM 5V
K	B-4	STEREO
L	B-4	DAR
M	A-4	RST
N	A-4	PROG
P	A-4	F/R
Q	A-1	ILLM
R	A-1	B. UP 5V

ADJUSTMENT/REGLAGES/ABGLEICH

PC BOARD LAYOUT



VOLTAGE TABLES

SYNTHESIZER UNIT (X14-2612-70)

IC1

1,2	1.5V
3	0V
4	0.5V
5	0V
6	2V
7	5V/0V
8	4V

IC2

1~11	—
12,13	4.9V
14~16	—

IC3

1	5V
2	5.6V
3	13.5V
4	—
5	FM:9V
6	FM:9V
7	9V
8	14.4V
9	4V
10	—
11	14.4V
12	0V

Q1, 12, 13, 18,
25, 27

E	0V
C	—
B	—

Q2, 3, 7

E	—
C	5V
B	—

Q~6, 14,
28~30
101, 103~105

E	—
C	—
B	—

Q8

E	AM:9V
C	—
B	LW:8.8V OTHER:0V

Q9

E	0V
C	—
B	4V

Q10

E	—
C	—
B	—

Q11

E	14.4V
C	—
B	—

Q15

E	0V
C	—
B	TAPE:3.5V OTHER:0V

Q16

E	9V
C	—
B	—

Q17

E	0V
C	—
B	C:3.5V

Q19~24

E	—
C	0V
B	—

Q25, 27

E	0V
C	—
B	—

Q26

E	0V
C	5V
B	—

Q31

E	—
C	5.6V
B	—

Q32

E	5.6V
C	—
B	—

Q100

E	0V
C	—
B	1V

Q102

E	0V
C	—
B	ON:13.5V

ELECTRIC UNIT (X25-3642-70)

IC2,3

1~3	4.1V
4	0V
5~7	4.1V
8	8.2V

IC4

1~3	4.1V
4	0V
5~7	4.1V
8	8.3V

IC5

1~14	—
------	---

IC6

1~6	—
7	8.8V
8~13	—
14	8.8V

IC10

1~3	8.3V
4~6	8.8V
7	—
8~10	8.3V

TUNER UNIT (X86-1142-70)

IC1

1~3	4.4V
4	0V
5~7	4.4V
8	8.8V

IC2

1	0V
2	DK ON:4.7V DK OFF:0V
3	BK ON:4.7V BK OFF:0V
4,5	—
6	4.4V
7	8.8V
8	4.4V
9	4.6V
10	0V
11	—
12	4.4V
13	6.6V
14	4.3V
15~17	4.4V
18	DK OFF:0V DK ON:7.5V
19	4.6V
20	0V

FRONT-END UNIT (X86-1162-70)

IC1

1~3	0V
3	2.6V
5	0V
6	5.2V
7	4.9V
8,9	4.8V
10	0V
11	8.4V
12	4.9V
13,14	5.9V
15	2.0V
16	4.9V

IC2

1~3	2.4V
4	6.2V
5	1.3V
6	0V
7	2.5V
8	1.3V
9	1.2V
10	1.9V
11	4.6V
12	2.1V
13	2V
14	0V
15,16	4.7V
17	0V
18	MONO:5.2V ST:0.7V

IC3

1~3	4.1V
4	0V
5~7	4.1V
8	8.2V

Q1

E	—
C	—
B	—

Q2

E	—
C	9V
B	—

Q3

E	—
C	9V
B	5.2V

Q5

E	0V
C	2V
B	—

Q6

E	0V
C	0V
B	—

Q7~10

E	—
C	0V
B	—

DOLBY NOISE REDUCTION UNIT (X87-1352-70)

IC1

1	3.8V
2	OFF:0V B:4V C:8V
3~5	3.8V
6	0V
7	8.2V
8~10	3.8V
11	PLAY (TAPE):7.8V REC (TUNER):4V
12~17	3.8V
18,19	—
20	3.8V
21,22	0.3V
23	3.8V
24	0.3V
25	—
26	0.3V
27~34	3.8V
35	0.3V
36	—
37	0.3V
38	3.8V
39,40	0.3V
41	3.8V
42,43	—
44~48	3.8V

DIGITAL I/O UNIT (X88-1032-70)

IC1

1~32	—
33	STOP STATION:5V
34~36	—
37	MUTE:0V
38	PWR OFF:4.19M/8V
39~56	—
57,58	5V
59	ANRC ON:5V
60	TUNED:5V
61	PWR ON:5V
62~64	—

IC2, 3

1~13	—
14	5V

IC4

1~7	—
8,9	5V
10~13	—
14	5V

IC5

1~4	—
5,6	5V
7	—
8,9	5V
10,11	—
12~14	5V

Q1

E	5V
C	—
B	MUTE ON:0V

Q2

E	—
C	MUTE:0V OTHER:5V
B	—

Q3, 22~28,
35, 39, 40

E	5V
C	—
B	—

Q4~7, 11~21,
32, 34, 36, 38

E	—
C	—
B	—

Q29

E	P-ON:5.6V
C	—
B	—

Q30

E	—
C	PWR ON:5V
B	—

Q31

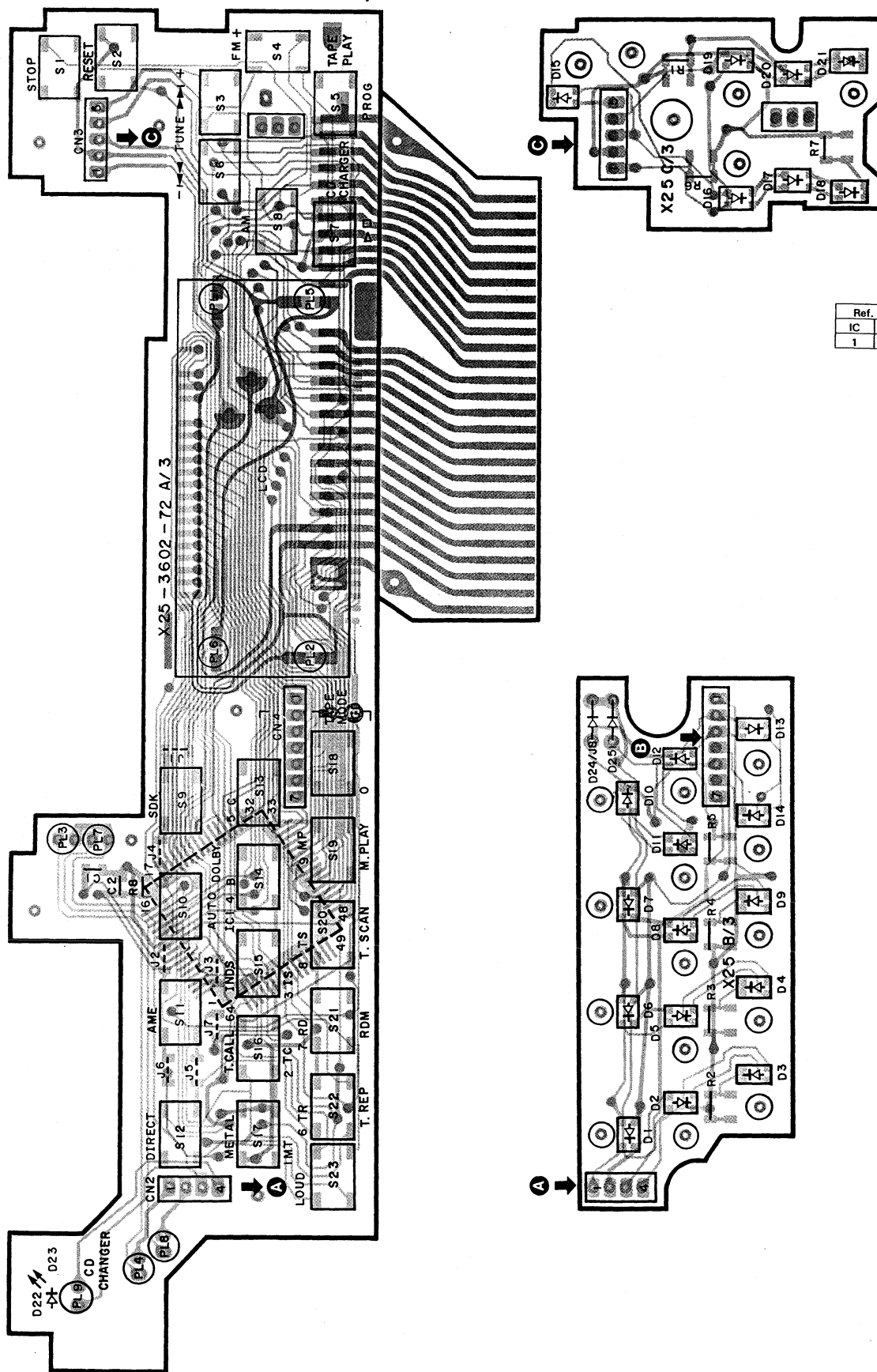
E	—
C	—
B	TUNED:5V

Q37

E	5.6V
C	—
B	—

PC BOARD (Component side view) (1/2)

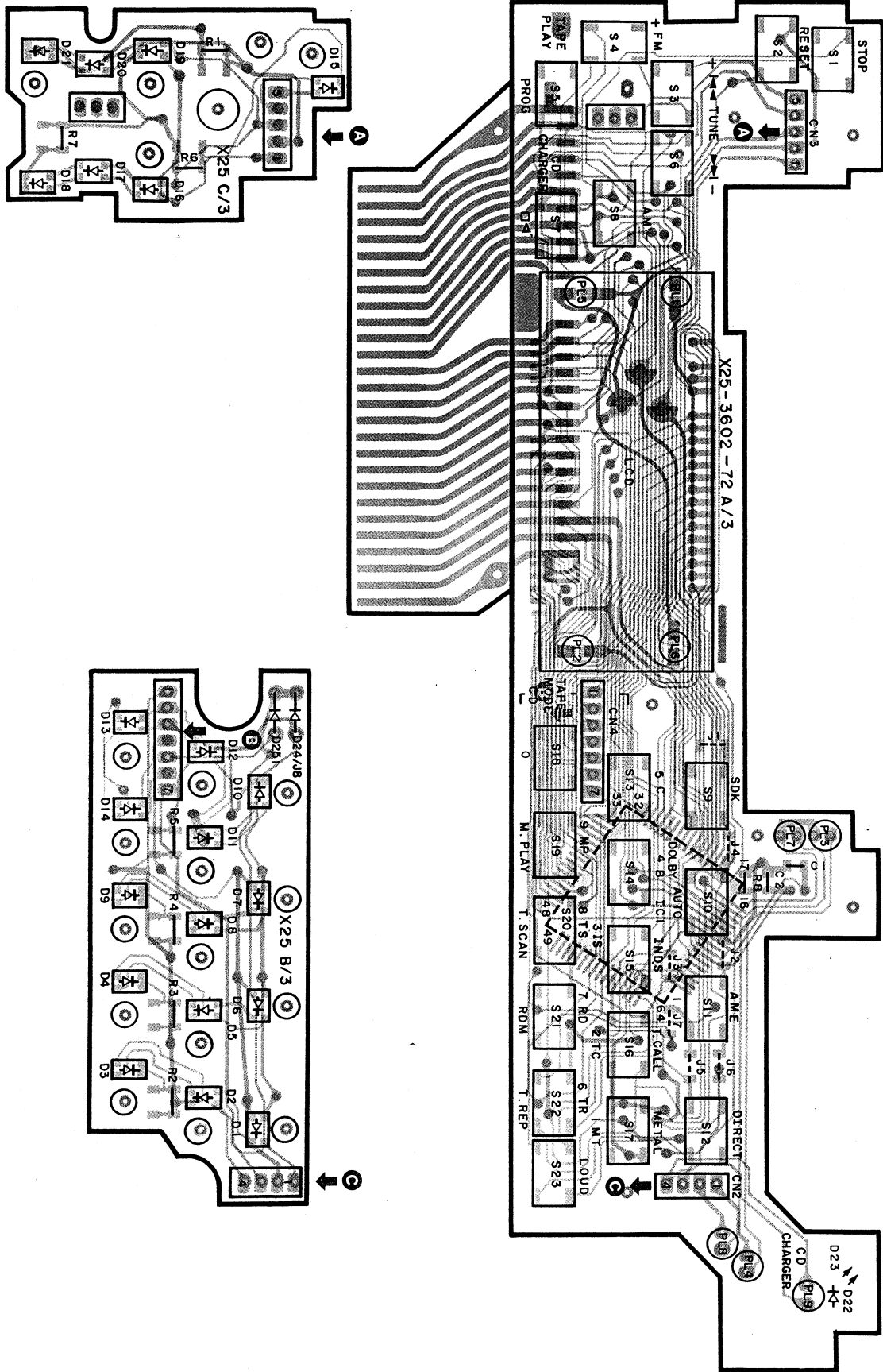
ELECTRIC UNIT (X25-3602-70)



Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Foil side view) (1/2)

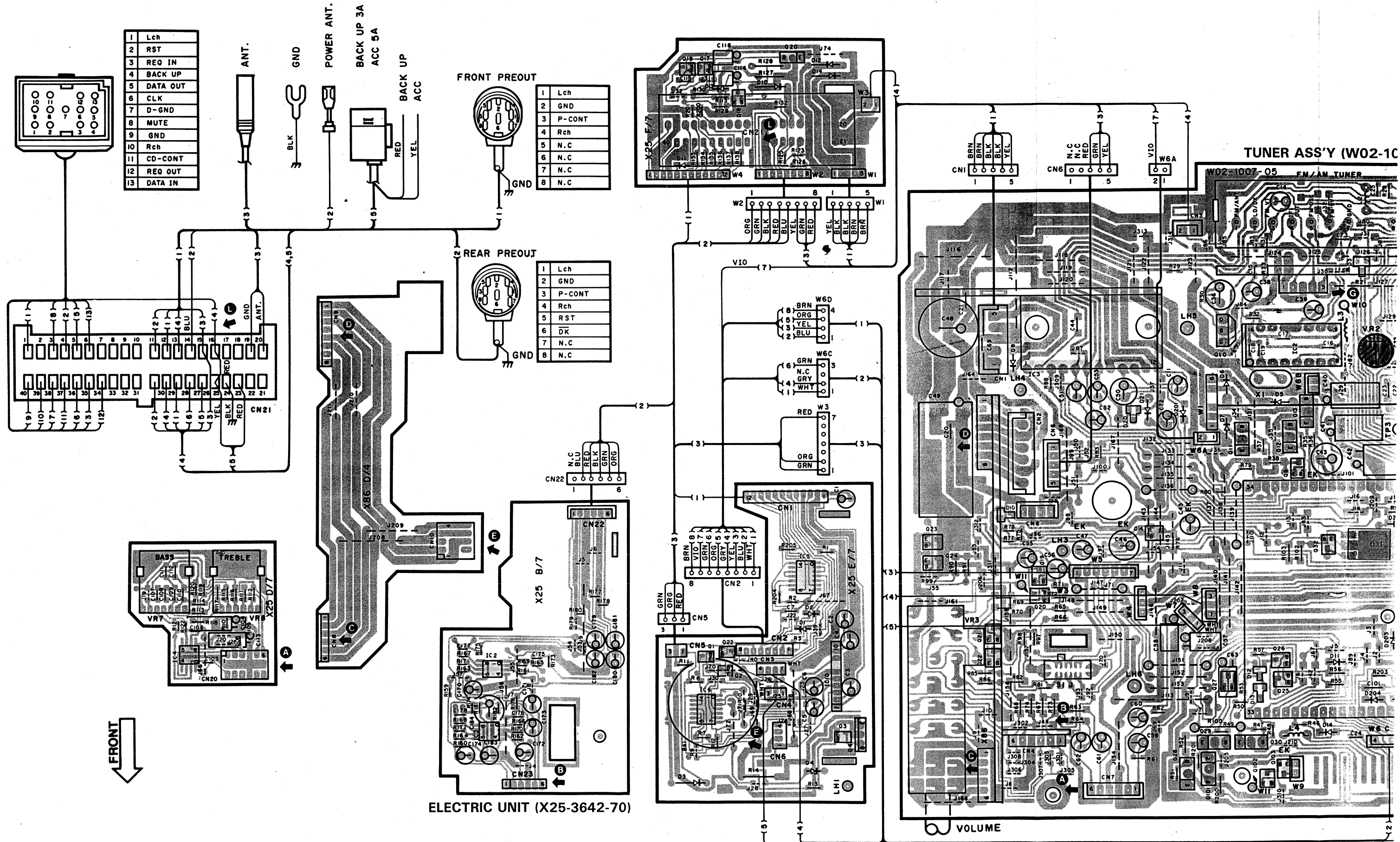
ELECTRIC UNIT (X25-3602-70)



Ref. No.	IC	Q	Address
1			51

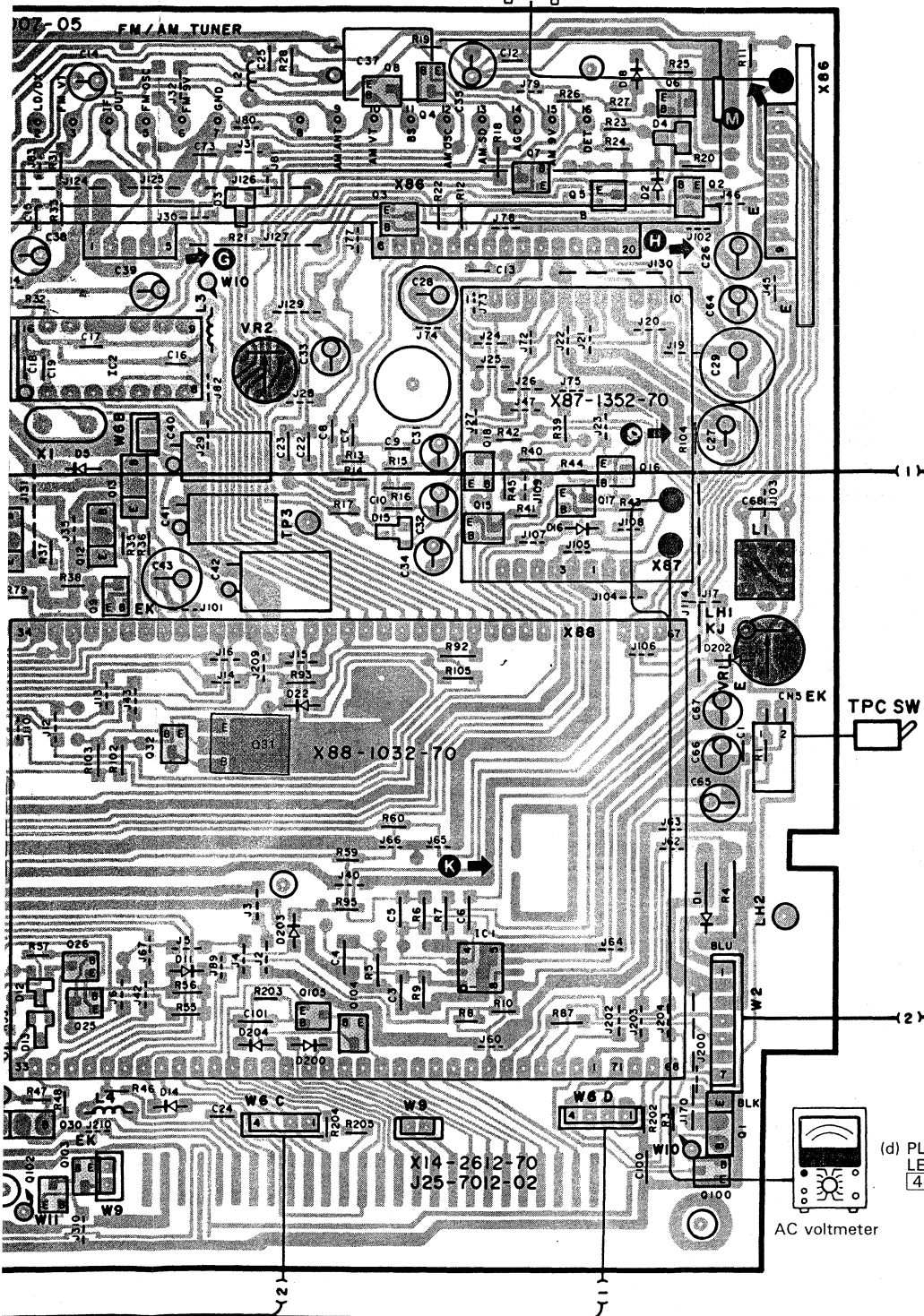
Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Component side view) (2/2)



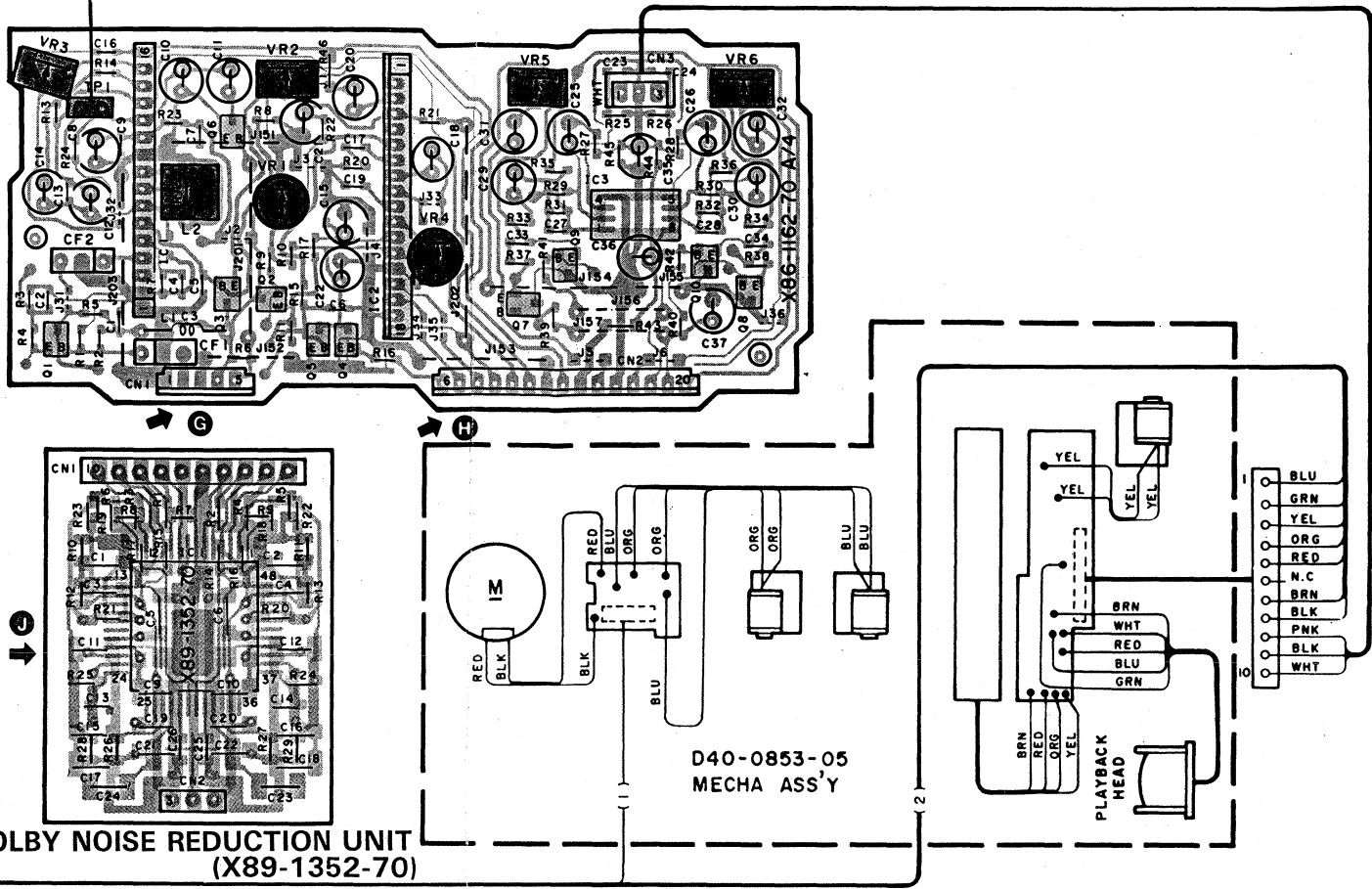
TUNER UNIT (X86-1142-70)

TUNER ASS'Y (W02-1007-05)

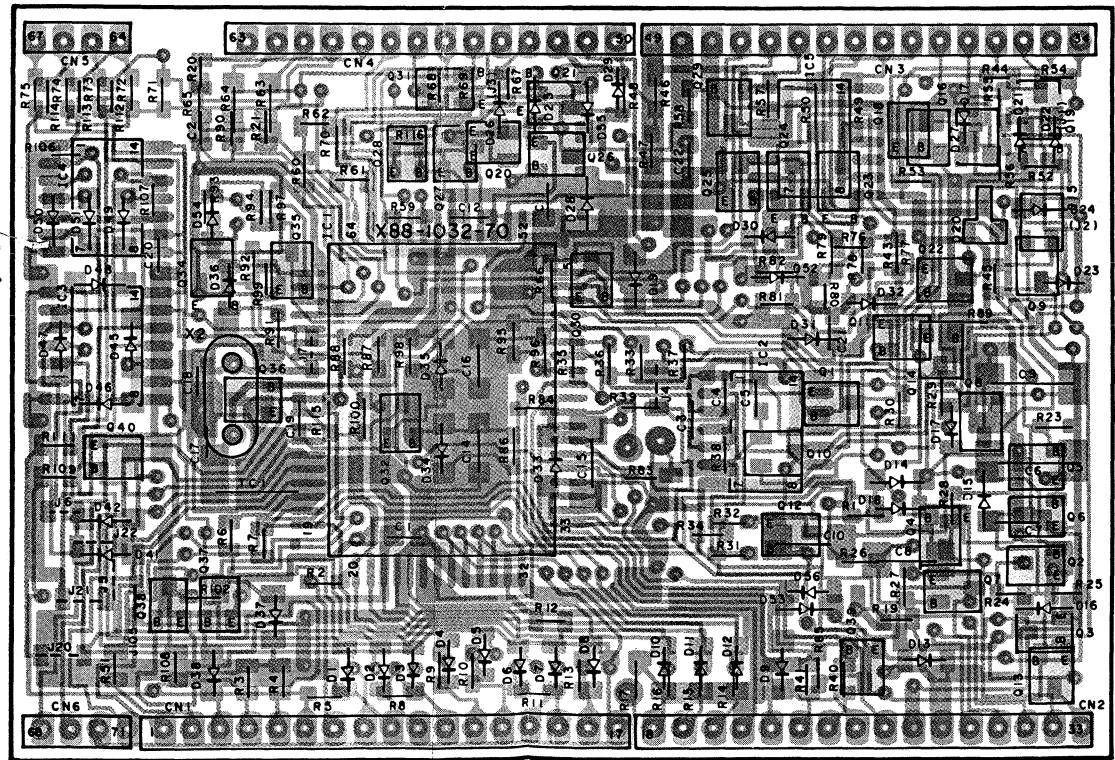


SYNTHESIZER UNIT (X14-2612-70)

FRONT-END UNIT (X86-1162-70)



DOLBY NOISE REDUCTION UNIT (X89-1352-70)



DIGITAL I/O UNIT (X88-1032-70)

KRC-989D(E)

Refer to the schematic diagram for the values of resistors and capacitors.

SYNTHESIZER UNIT (X14-2612-70)

Ref. No.	Q	Address
IC	Q	Address
1	6V	
2	3L	
3	3U	
4	2U	
5	3U	
6	2L	
7	3U	
8	2U	
9	6T	
10	3S	
11	4S	
12	4T	
13	4T	
14	5S	
15	4U	
16	4L	
17	4U	
18	4U	
19	5R	
20	5R	
21	6R	
22	6R	
23	5Q	
24	5Q	
25	6T	
26	6T	
27	6S	
28	6S	
29	6S	
30	6S	
31	5T	
32	6T	
100	6V	
101	6S	
102	6T	
103	6T	
104	6U	
105	6T	
1	3R	
2	3T	
3	3R	

ELECTRIC UNIT (X25-3602-72)

Ref. No.	Q	Address
IC	Q	Address
1	5B	

ELECTRIC UNIT (X25-3642-70)

Ref. No.	Q	Address
IC	Q	Address
1	6P	
2	6P	
3	6Q	
4	6Q	
17	1P	
18	2P	
19	1P	
20	1P	
22	6P	
2	6X	
3	6X	
4	6L	
5	5P	
6	6P	
10	6P	

TUNER UNIT (X86-1142-70)

Ref. No.	Q	Address
IC	Q	Address
1	2V	
2	1V	

FRONT END UNIT (X86-1162-70)

Ref. No.	Q	Address
IC	Q	Address
1	2W	
2	2X	
3	2X	
4	2X	
5	1X	
6	2Y	
7	2Y	
8	2Y	
9	2Y	
10	2Y	
1	2W	
2	2X	
3	2Y	

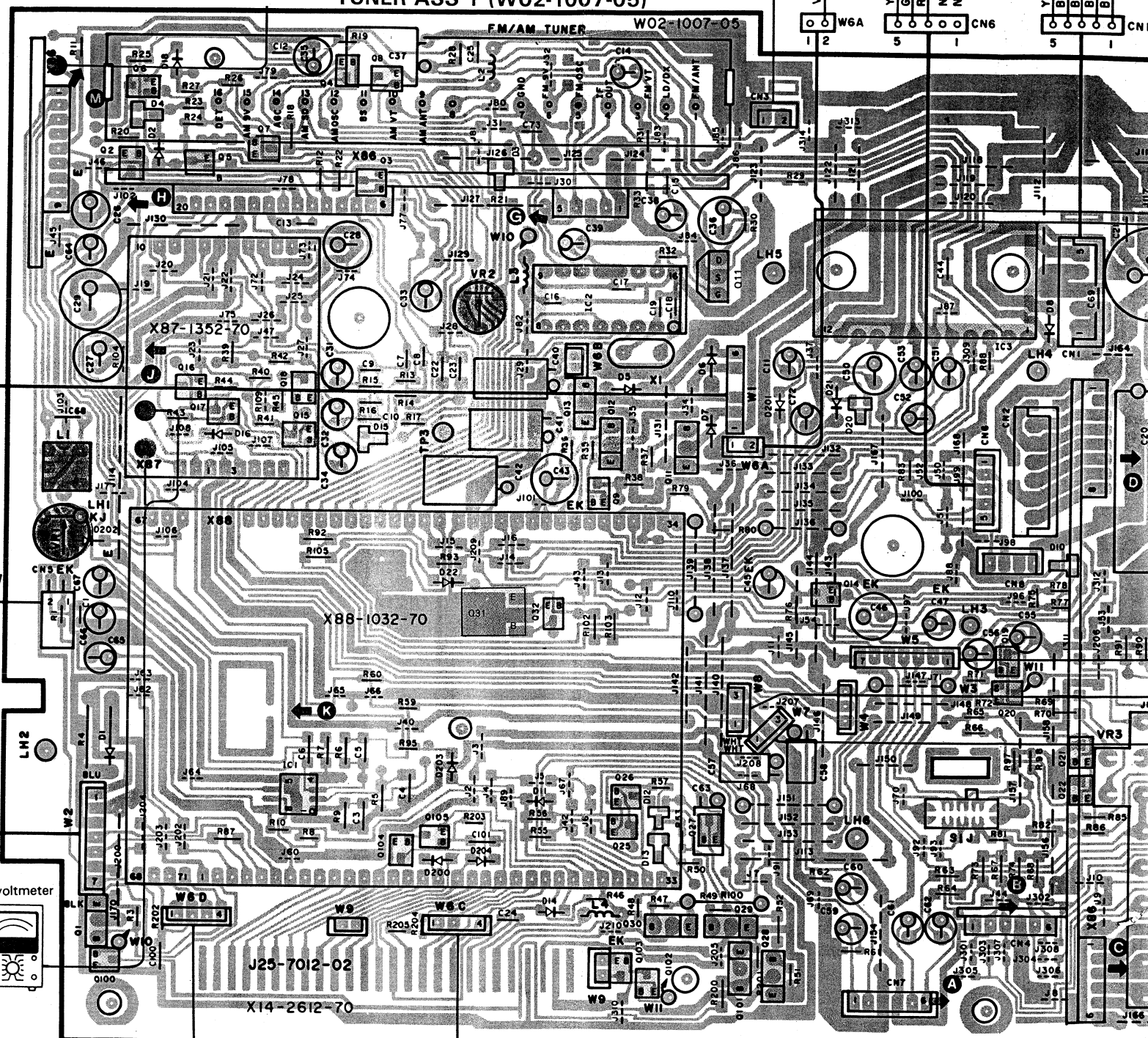
DOLBY NOISE REDUCTION UNIT (X89-1352-70)

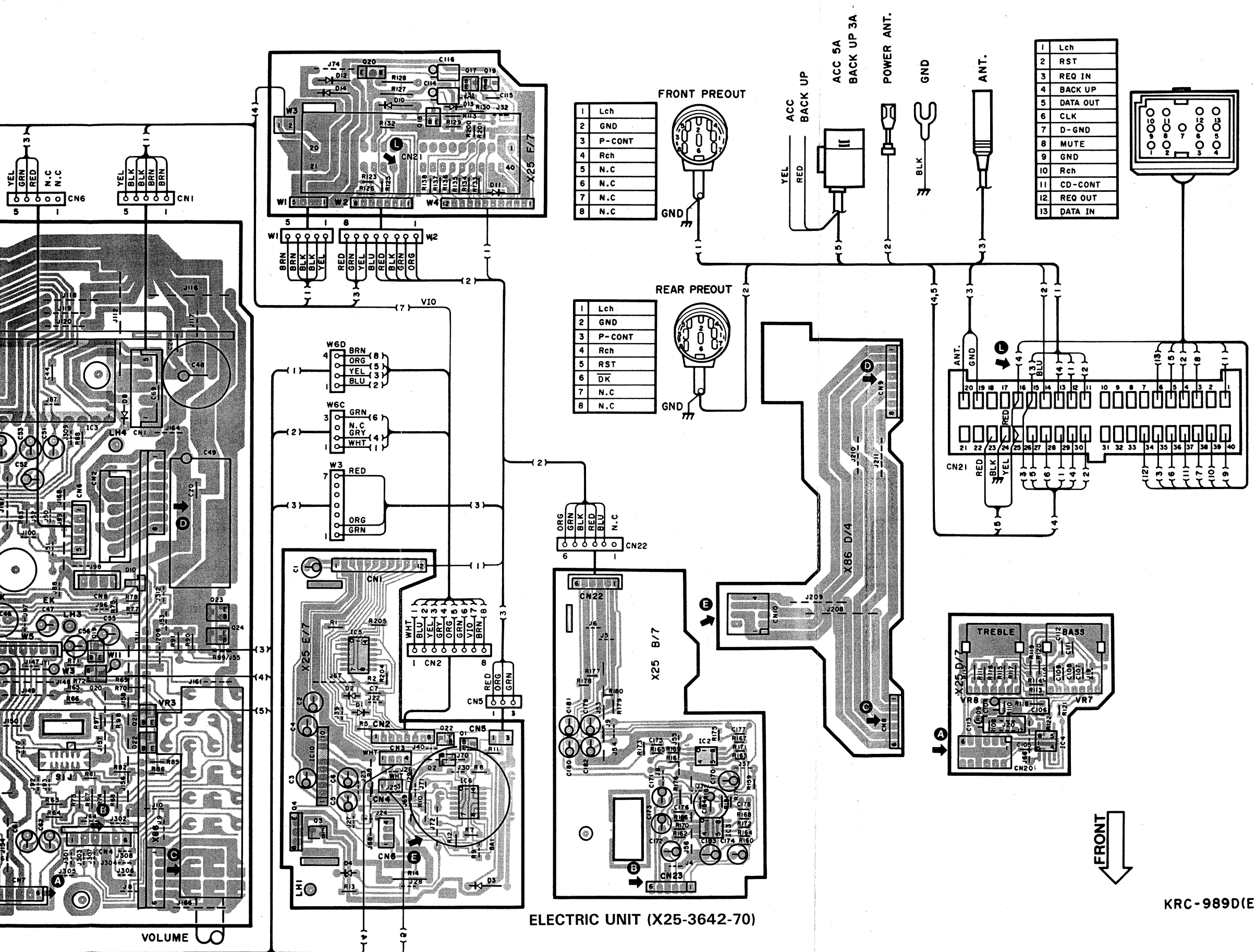
Ref. No.	Q	Address
IC	Q	Address
1	3W	

DIGITAL I/O UNIT (X88-1032-70)

Ref. No.	Q	Address
IC	Q	Address
1	5Z	
2	6Z	
3	6Z	
4	6Z	
5	6Z	
6	6Z	
7	6Z	
11	5Z	
12	6Z	
13	6Z	
14	5Z	
18	5Z	
19	5Z	
20	5Y	
21	4Y	
22	5Z	
23	5Z	
24	5Y	
25	5Y	
26	5Y	
27	5X	
28	5X	
29	5Y	
30	5Y	
31	5X	
32	6X	
34	5X	
35	5X	
36	5X	
37	6X	
38	6X	
39	6Z	
40	6W	
1	6Y	
2	6Y	
3	5W	
4	5W	
5	5Y	

VOLUME





KRC-989D(E)

Refer to the schematic diagram for the values of resistors and capacitors.

**SYNTHESIZER UNIT
(X14-2612-70)**

Ref. No.	Address
1	6AI
2	3AI
3	3AJ
4	2AJ
5	3AI
6	2AI
7	3AJ
8	2AJ
9	4AK
10	3AL
11	4AL
12	4AK
13	4AK
14	5AL
15	4AJ
16	4AI
17	4AJ
18	4AJ
19	5AM
20	5AM
21	6AM
22	6AM
23	5AN
24	5AN
25	6AK
26	6AK
27	6AL
28	6AL
29	6AL
30	6AL
31	5AK
32	5AK
100	6AI
101	6AL
102	6AK
103	6AK
104	6AJ
105	6AJ
1	6AJ
2	3AK
3	3AM

**ELECTRIC UNIT
(X25-3602-72)**

Ref. No.		Address
IC	Q	
1		5H

ELECTRIC UNIT
(X25-3642-70)

Ref. No.		Address
IC	Q	
	1	6AO
	2	6AO
	3	6AN
	4	6AN
	17	1AO
	18	2AO
	19	1AO
	20	1AO
	22	6AO
2		6AQ
3		6AQ
4		6AS
5		5AO
6		6AO
10		6AN

TUNER UNIT
(X86-1142-70)

Ref. No.		Address
IC	Q	
1		2AI
2		1AI

**FRONT END UNIT
(X86-1162-70)**

Ref. No.		Address
IC	Q	
	1	2AH
	2	2AG
	3	2AG
	5	2AG
	6	1AG
	7	2AF
	8	2AF
	9	2AF
	10	2AF
1		2AH
2		2AG
3		2AF

**DOLBY NOISE
REDUCTION UNIT
(X87-1352-70)**

Ref. No.		Address
IC	Q	
1		3AG

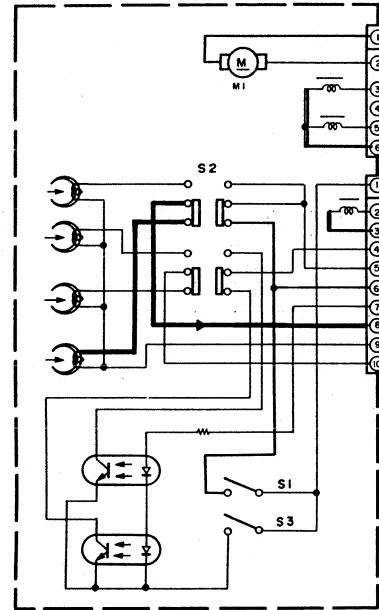
**DIGITAL I/O UNIT
(X88-1032-70)**

Ref. No.	Q	Address
1	5AE	
2	6AE	
3	6AE	
4	6AE	
5	6AE	
6	6AE	
7	6AE	
11	5AE	
12	6AE	
13	6AE	
14	5AE	
18	4AE	
19	4AE	
20	5AF	
21	4AF	
22	5AE	
23	4AE	
24	4AE	
25	4AF	
26	5AF	
27	5AG	
28	5AF	
29	5AF	
30	5AF	
31	4AG	
32	5AG	
34	5AG	
35	5AG	
36	5AG	
37	6AG	
38	6AG	
39	6AE	
40	6AF	
1	5AF	
2	5AF	
3	5AF	
4	5AF	
5	4AF	

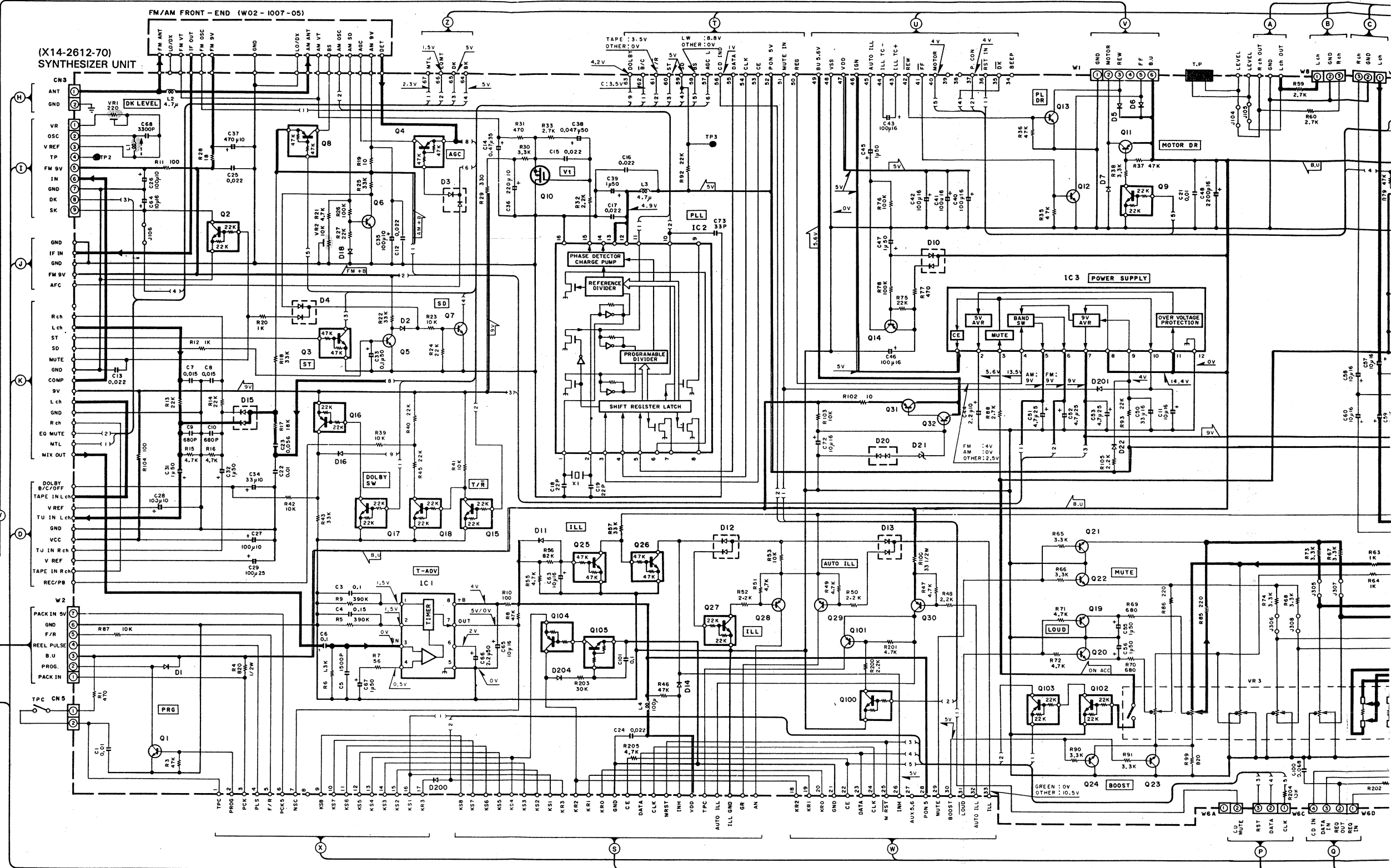
IC1 : BA3708F
 IC2 : LM7001
 IC3 : BA3900-V1

 Q1,12,13 : 2SD1469F
 Q2,9,15,17,27,100,102 : DTC124EK
 Q3,25,26 : DTC144EK
 Q4,8 : DTA144EK
 Q5~7,32 : 2SC2412K(S)
 Q10 : 2SK669
 Q11 : 2SA1428
 Q14 : 2SA1037K
 Q16,103,104 : DTA124EK
 Q19~22 : 2SD1757K
 Q28~30,101 : 2SB822F
 Q31 : 2SB1181FS
 D1 : S55668
 D2,11,14,16,18 : RLS-73
 D3,4,13 : DAN202K
 D5~8 : ERA15-OIYI
 D10,20 : DA204K
 D12,15 : DAP202K
 D21 : R55.1J5(B2)
 D22 : DLS1585 or RLS-73

MECHA. ASS'Y
(D40-0853-05)



(X14-2612-70)
SYNTHESIZER UNIT



BA3900-V1

2SB1181FS

DTC143TK
 2SA1428
 2SB822F
 2SD1469F

DTA114EK
 DTA124EK
 DTA144EK
 DTC124EK
 DTC144EK
 DTC144WK
 2SA1036K
 2SA1037K
 2SC2412K
 2SD1757K

LM7001

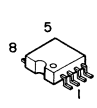
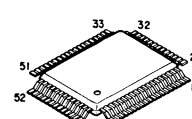
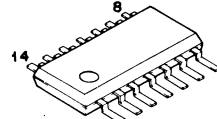
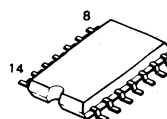
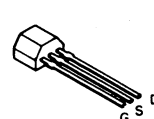
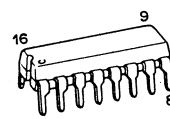
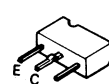
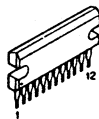
2SK669

TC4001BF

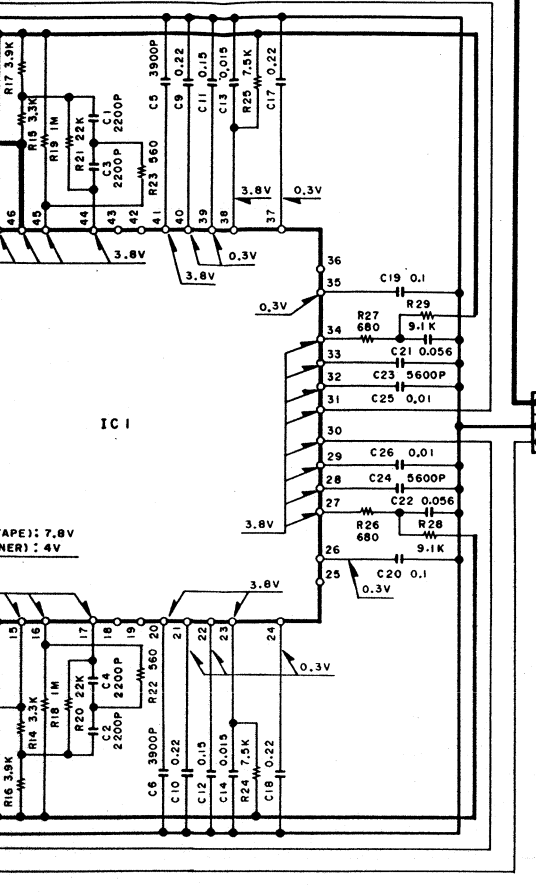
BU4001BF
 BU4069UBF
 BU4081BF

75108G-E68-1B

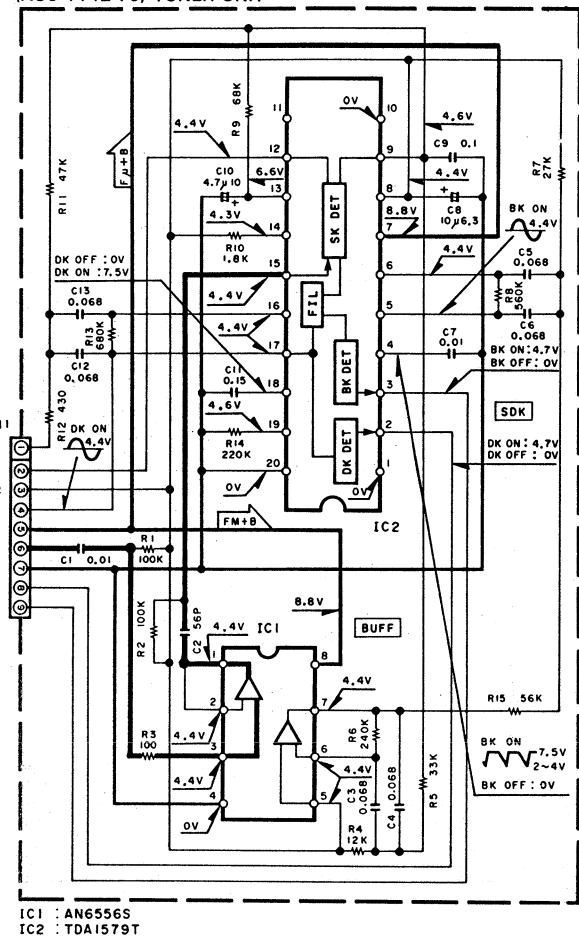
BA3708F



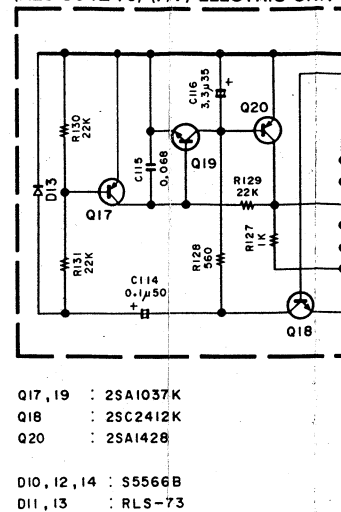
UNIT



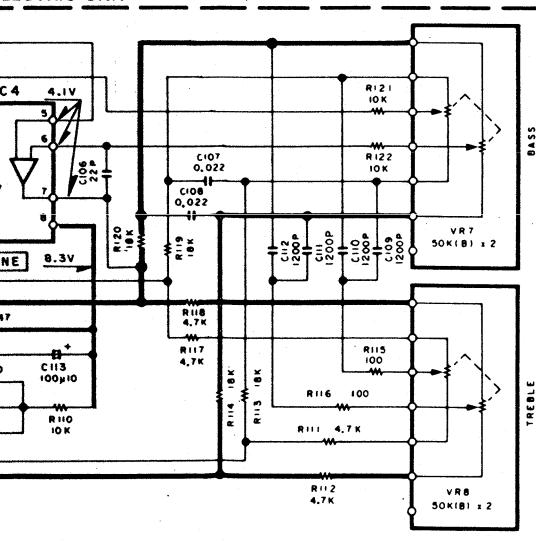
(X86-1142-70) TUNER UNIT



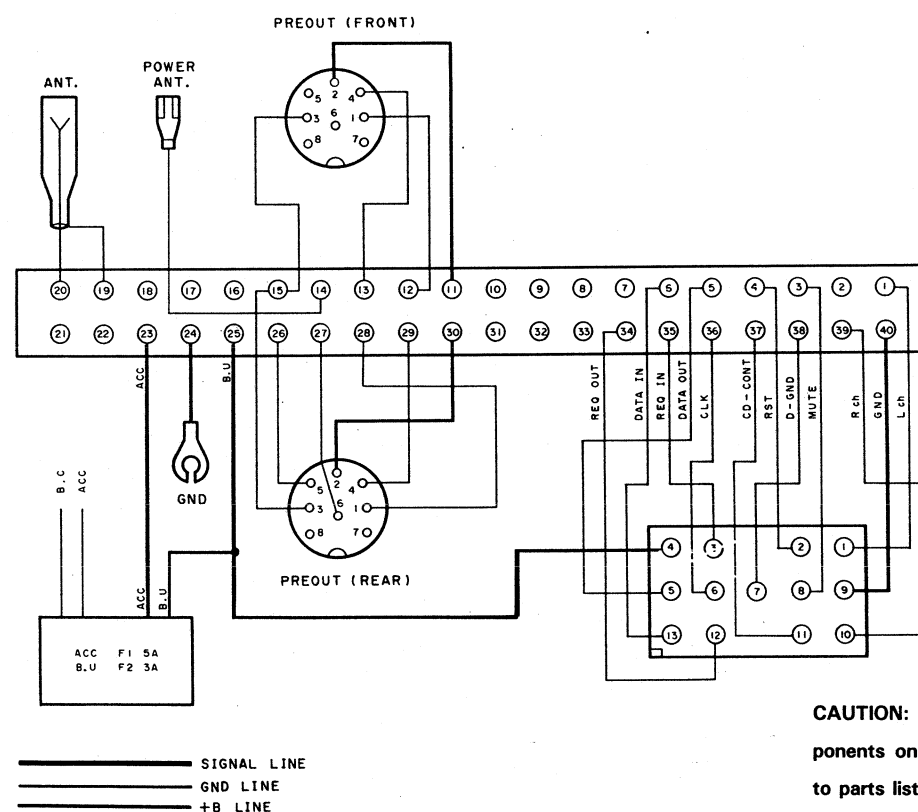
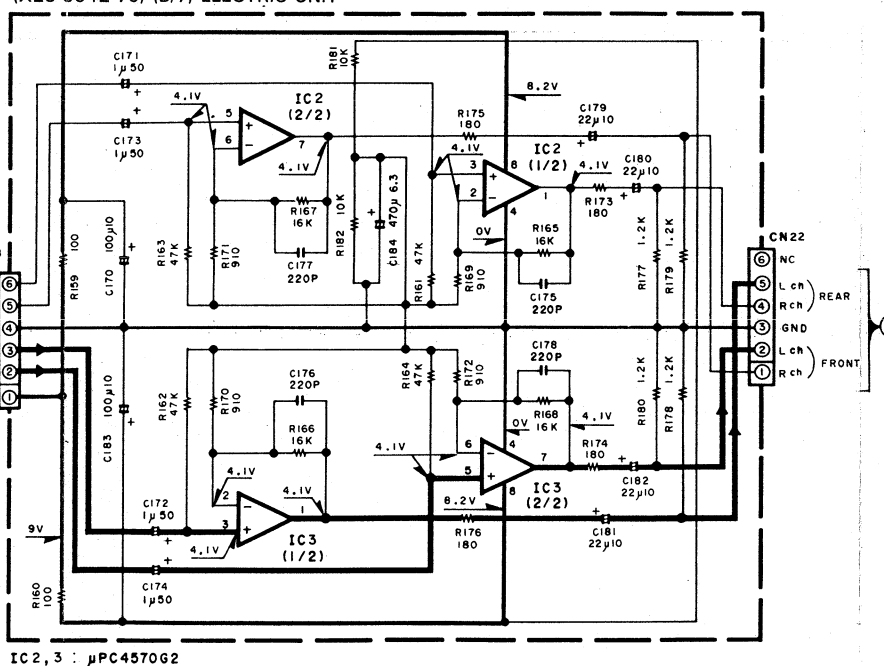
(X25-3642-70) (F/7) ELECTRIC UNIT



ELECTRIC UNIT



(X25-3642-70) (B/7) ELECTRIC UNIT



KRC-989D (E)(2/3)

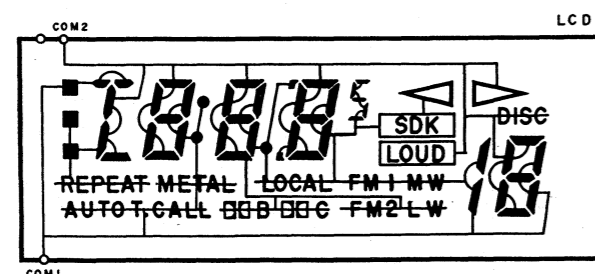
DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

Y36-1170-51

KRC-989D
KENWOOD



(X25-3602-72)
D1~21: B30-1208-05
D24,25: ERA15-01Y1
IC1: LC7582A

LCD: B38-0504-05

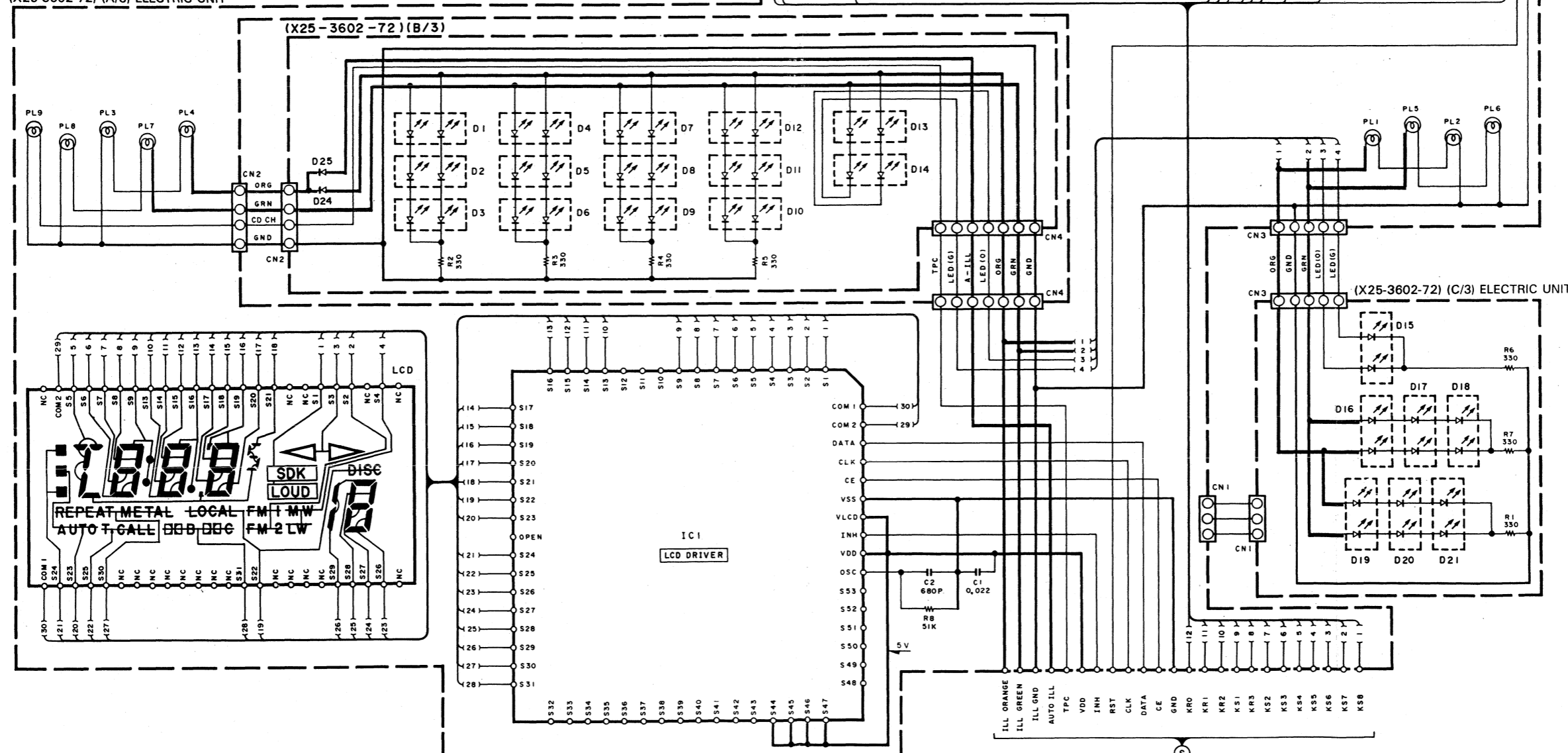
PL1~4: B30-1187-05

PL5~8: B30-1204-05

PL9: B30-1307-05

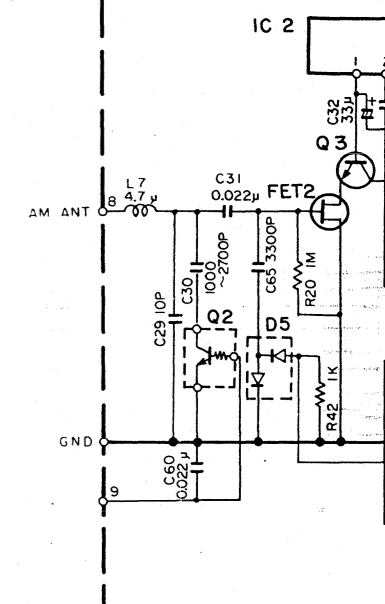
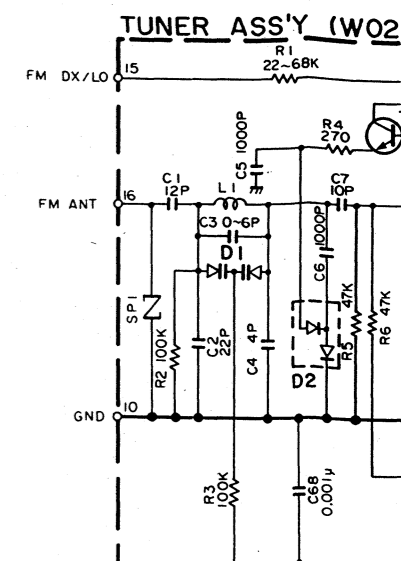
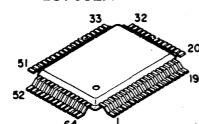
— GND LINE
— +B LINE

(X25-3602-72) (A/3) ELECTRIC UNIT



(S)

LC7582A



IC 1: TA8116F
IC 2: LA1135

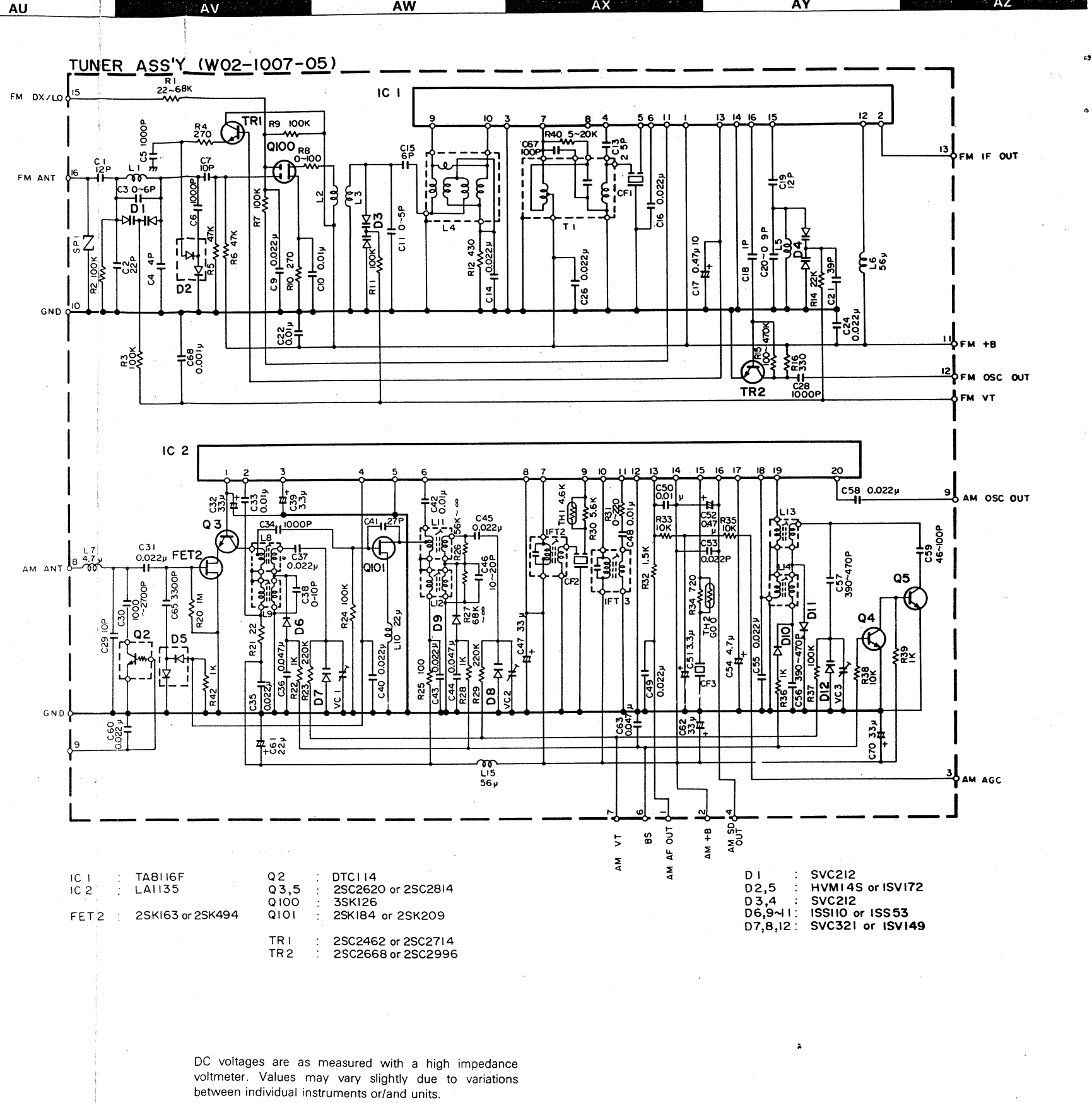
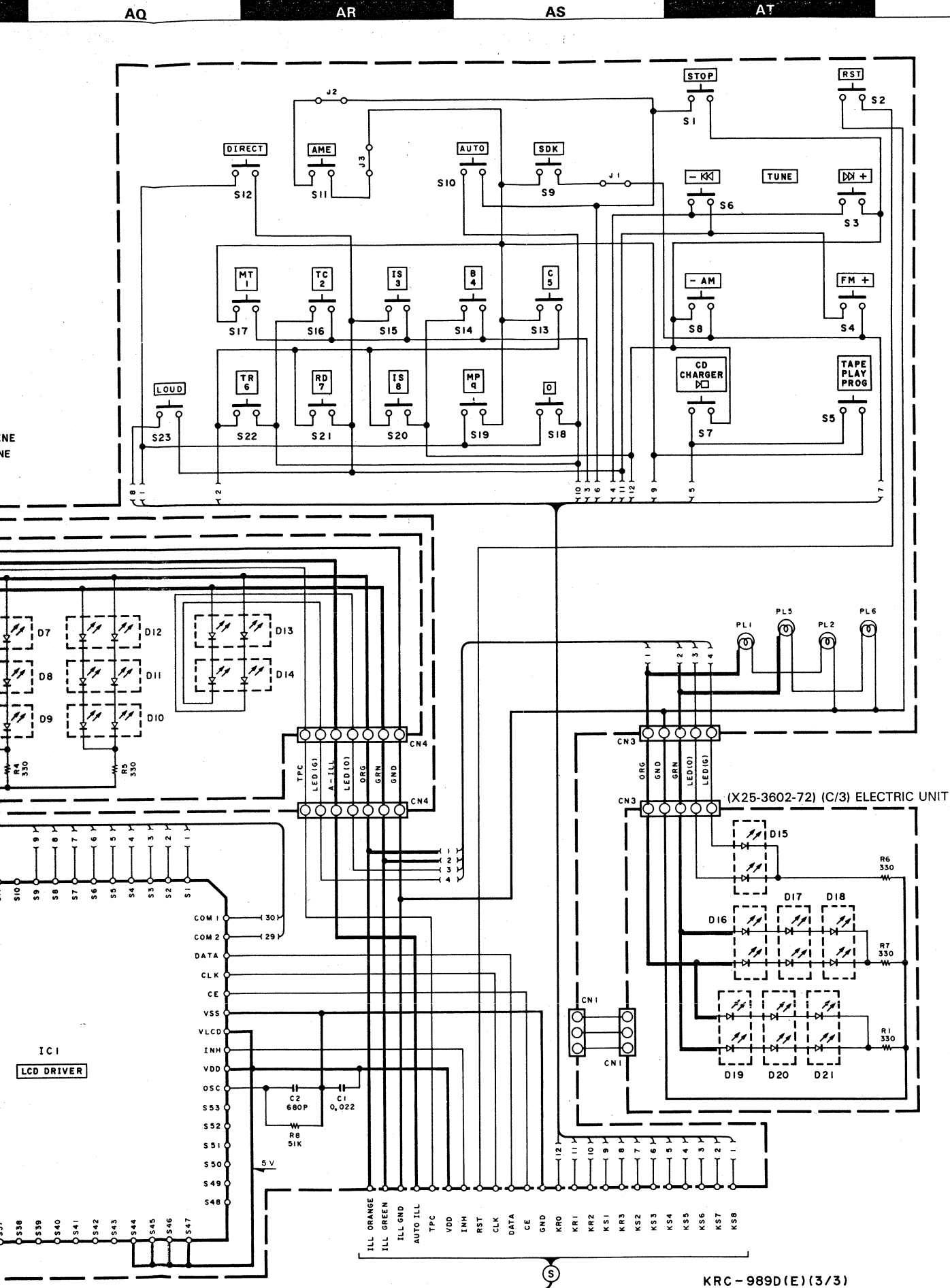
FET 2: 2SK163 or 2SK494

DC volt
voltmeter.
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KRC-989D(E) (3/3)



DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

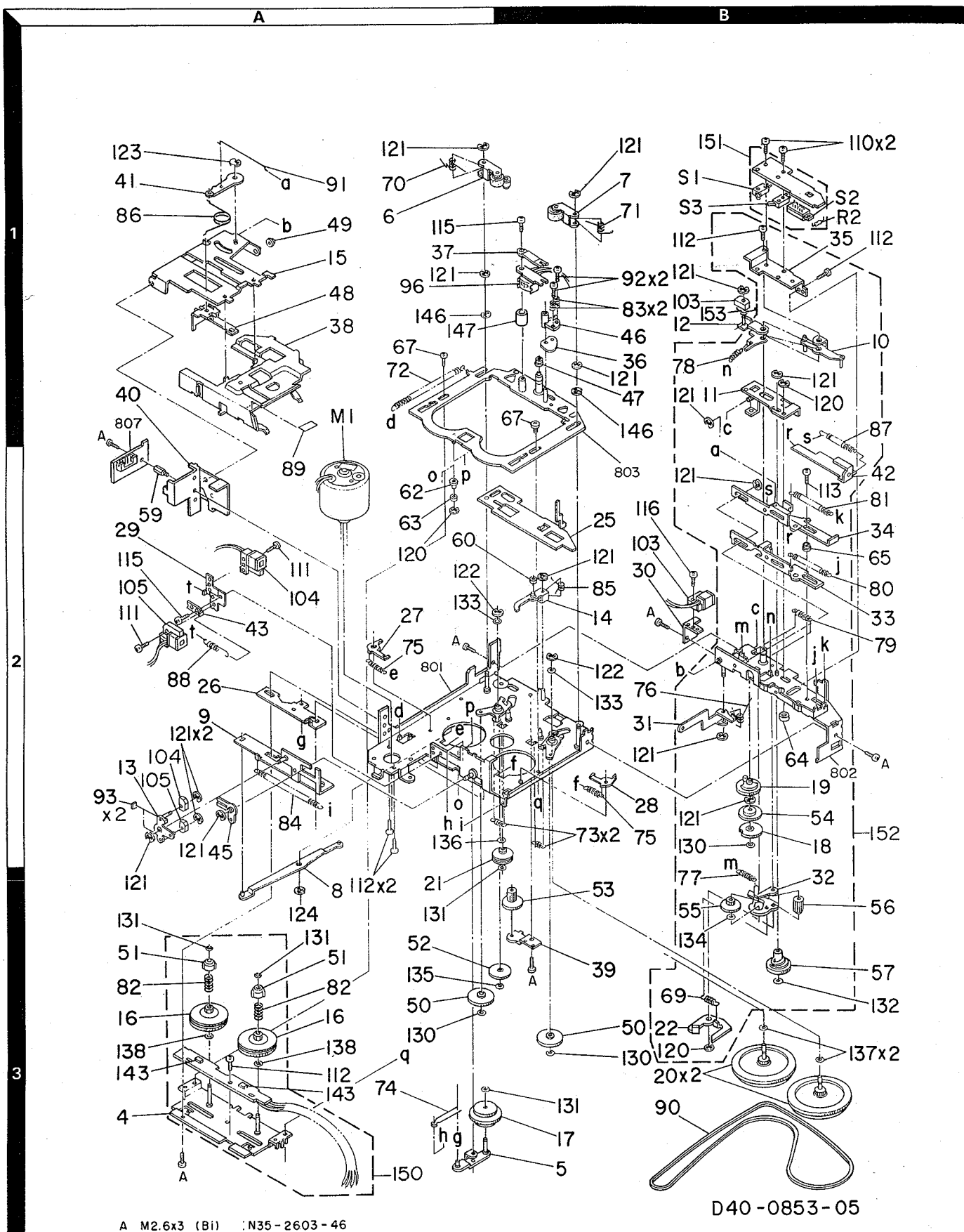
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). **⚠** Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

Y36-1170-51

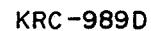
KRC-989
KENWOOD

KRC-989D

EXPLODED VIEW (MECHANISM)



EXPLODED VIEW (UNIT)



PARTS LIST

* New Parts

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
KRC-989D						
201	1C	*	A01-1777-01	METALLIC CABINET	E	
203	2C	*	A20-7501-12	PANEL ASSY		
206	3D		A50-0313-13	SIDE PLATE ASSY		
208	2D	*	A50-0318-13	SIDE PLATE		
209	1D	*	A52-0137-12	TOP COVER		
210	2C		A53-1088-03	CASSETTE LID		
212	2C	*	B07-1878-42	ESCUTCHEON ASSY		
213	1C	*	B09-0062-05	CAP		
214	2C	*	B10-1302-03	FRONT GLASS (LCD)		
215	2C	*	B10-1024-04	FRONT GLASS (CD-IND)		
-			B46-0100-10	WARRANTY CARD		
-			B46-0182-04	ID CARD		
-		*	B50-9746-00	INSTRUCTION MANUAL		
-		*	B50-9981-00	INSTRUCTION MANUAL		
-			B58-0803-13	CAUTION CARD		
-			B58-0871-04	CAUTION CARD		
-			B58-0883-04	CAUTION CARD		
221	2D		D10-2168-24	LEVER		
222	3D		D10-2305-04	LEVER		
227	2D		D40-0853-05	CASSETTE MECHANISM ASSY		
F1	1D		F06-5024-05	FUSE (5A) ACC		
F2	1D		F06-3026-05	FUSE (3A) BACKUP		
241	2D		G01-2040-04	EXTENSION SPRING		
242	1C		G01-2370-04	TORSION COIL SPRING		
243	2C		G01-2371-04	TORSION COIL SPRING		
244	2C		G11-1350-04	CUSHION		
-		*	H01-9002-04	ITEM CARTON CASE		
-			H10-3777-13	POLYSTYRENE FOAMED FIXTURE		
-			H25-0329-04	PROTECTION BAG (280X450X0.03)		
-			H25-0336-04	PROTECTION BAG (170X250X0.03)		
259	2C		J31-0826-04	COLLAR		
260	2D	*	J32-1001-04	BOSS		
261	1C		J54-0059-04	STAY		
262	2C		K01-0085-13	HANDLE		
263	2C		K23-0403-13	KNOB (VOL)		
264	2C		K23-0404-14	KNOB (FAD)		
265	2C		K23-0405-04	KNOB (TONE)		
266	2C	*	K24-0501-04	KNOB (CD)		
267	2C	*	K24-0502-04	KNOB (TAPE)		
268	2C	*	K24-0069-04	KNOB (RESET)		
269	2C	*	K25-0501-03	KNOB (1-5)		
270	2C	*	K25-0502-03	KNOB (6-0)		
271	1C		K27-1964-04	KNOB (BUTTON)		
272	2C		K29-3562-04	KNOB (DIRECT)		
273	2C	*	K29-5502-04	KNOB (LO/AME)		
274	2C		K29-3564-04	KNOB (AUTO)		
275	2C		K29-3565-04	KNOB (SDK)		
276	3C	*	K29-5503-04	KNOB (EJECT)		
277	3C		K29-3570-14	KNOB (DOWN)		
278	3C		K29-3569-14	KNOB (UP)		
279	3C	*	K29-5506-04	KNOB (FM/AM)		

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕 向	Re- marks 備考
282	1C		N99-0280-05	SCREW SET		
A	1C	*	N09-4002-05	STEPPED SCREW (M2.6X3)		
B	1D		N09-2626-05	STEPPED SCREW		
C	1C		N09-1992-05	EVATITE SCREW (2.6X8,+ ,P)		
D	2D		N09-1994-05	TAPTITE SCREW (3X6,+)		
E	2C		N32-2008-45	FLAT HEAD MACHINE SCREW		
F	2D		N30-2604-46	PAN HEAD MACHINE SCREW		
G	2D		N39-1760-46	PAN HEAD MACHINE SCREW		
H	2D		N30-2610-46	PAN HEAD MACHINE SCREW		
I	2C		N39-2640-45	PAN HEAD MACHINE SCREW		
J	1C	*	N09-4004-05	STEPPED SCREW (M2.6X16)		
K	1C		N30-3004-46	PAN HEAD MACHINE SCREW		
L	1D		N88-2005-46	FLAT HEAD TAPTITE SCREW		
M	3D		N35-3006-45	BINDING HEAD MACHINE SCREW		
N	2C		N09-1845-05	TAPTITE SCREW		
P	2C		N88-2605-46	FLAT HEAD TAPTITE SCREW		
R	1D	*	N86-2608-45	BINDING HEAD TAPTITE SCREW		
T	1C		N09-1887-05	TAPTITE SCREW		
S1	2D		S46-1076-05	LEAF SWITCH		
289	1C	*	W09-0701-04	DETACHABLE CONNECTOR		
BT1	2D		W09-0625-05	BATTERY		
SYNTHESIZER UNIT (X14-2612-70)						
C1			CK73FB1H103K	CHIP C 0.010UF K		
C3			CK73EB1E104K	CHIP C 0.10UF K		
C4			CK73DB1H154K	CHIP C 0.15UF K		
C5			CK73EB1H152K	CHIP C 1500PF K		
C6			CK73EB1E104K	CHIP C 0.10UF K		
C7 ,8			CK73FB1H153K	CHIP C 0.015UF K		
C9 ,10			CK73FB1H681K	CHIP C 680PF K		
C11			CE04NW1C100M	ELECTRO 10UF 16WV		
C12 ,13			CK73FB1H223K	CHIP C 0.022UF K		
C14			CS15E1VR47M	TANTAL 0.47UF 35WV		
C15 -17			CK73FB1H223K	CHIP C 0.022UF K		
C18 ,19			CC73FCH1H220J	CHIP C 22PF J		
C20 -22			CK73EB1H103K	CHIP C 0.010UF K		
C23			CK73EB1H683K	CHIP C 0.068UF K		
C24 ,25			CK73FB1H223K	CHIP C 0.022UF K		
C26			CE04DW1A101M	ELECTRO 100UF 10WV		
C27 ,28			CE04MW1A101M	ELECTRO 100UF 10WV		
C29		*	CE04MW1E101M	ELECTRO 100UF 25WV		
C31 ,32			CE04MW1H010M	ELECTRO 1.0UF 50WV		
C33			CE04NW1H0R1M	ELECTRO 0.1UF 50WV		
C34			CE04NW1C100M	ELECTRO 10UF 16WV		
C35			CE04MW1A101M	ELECTRO 100UF 10WV		
C36			CE04NW1A221M	ELECTRO 220UF 10WV		
C37			CE04DW1A471M	ELECTRO 470UF 10WV		
C38			CE04NW1H2R2M	ELECTRO 2.2UF 50WV		
C39			CE04NW1H010M	ELECTRO 1.0UF 50WV		
C40 -42			C90-1263-05	ELECTRO 100UF 16WV		
C43			CE04NW1C101M	ELECTRO 100UF 16WV		
C44			C92-0005-05	CHIP-TAN 2.2UF 6.3WV		
C45			CE04NW1H010M	ELECTRO 1.0UF 50WV		
C46			CE04NW1C101M	ELECTRO 100UF 16WV		

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C47			CE04NW1H010M	ELECTRO 1.0UF 50WV		
C48 ,49			C90-1404-05	ELECTRO 2200UF 16WV		
C50			CE04NW1C330M	ELECTRO 33UF 16WV		
C51 -53			CE04MW1E4R7M	ELECTRO 4.7UF 25WV		
C55 ,56			CE04NW1H010M	ELECTRO 1.0UF 50WV		
C57 ,58			CE04MW1C100M	ELECTRO 10UF 16WV		
C59 -62			CE04MW1C100M	ELECTRO 10UF 16WV		
C63			CE04NW1C100M	ELECTRO 10UF 16WV		
C64 ,65			CE04NW1C100M	ELECTRO 10UF 16WV		
C66			CE04NW1H2R2M	ELECTRO 2.2UF 50WV		
C67			CE04NW1H010M	ELECTRO 1.0UF 50WV		
C68			CQ93AP2A332J	POLYPRO 3300PF J		
C69			CK73EB1H473K	CHIP C 0.047UF K		
C72			CE04NW1C100M	ELECTRO 10UF 16WV		
C73			CC73FCH1H330J	CHIP C 33PF J		
C100			CK73EB1H683K	CHIP C 0.068UF K		
C101			CK73EB1E104K	CHIP C 0.10UF K		
301	3D		F02-0065-13	HEAT SINK		
LH4		*	J19-4316-05	HOLDER		
L1			L39-0156-05	TRAP COIL		
L2 ,3			L40-4791-17	SMALL FIXED INDUCTOR(4.7UH,K)		
L4			L40-1011-17	SMALL FIXED INDUCTOR		
X1			L77-1166-05	CRYSTAL RESONATOR		
X2			L77-1167-05	CRYSTAL RESONATOR		
W	3D		N30-3008-46	PAN HEAD MACHINE SCREW		
J2 -17			R92-0338-05	CLYND CHIP R 0 OHM		
J19 -32			R92-0338-05	CLYND CHIP R 0 OHM		
J34 -37			R92-0338-05	CLYND CHIP R 0 OHM		
J40			R92-0338-05	CLYND CHIP R 0 OHM		
J42 ,43			R92-0338-05	CLYND CHIP R 0 OHM		
J45 ,46			R92-0338-05	CLYND CHIP R 0 OHM		
J53 ,54			R92-0338-05	CLYND CHIP R 0 OHM		
J60			R92-0670-05	CHIP R 0 OHM		
J62 -69			R92-0670-05	CHIP R 0 OHM		
J72 -75			R92-0670-05	CHIP R 0 OHM		
J77 -88			R92-0670-05	CHIP R 0 OHM		
J91			R92-0670-05	CHIP R 0 OHM		
J96 ,97			R92-0670-05	CHIP R 0 OHM		
J99			R92-0670-05	CHIP R 0 OHM		
J101-106			R92-0670-05	CHIP R 0 OHM		
J181			R92-0338-05	CLYND CHIP R 0 OHM		
J200			R92-0338-05	CLYND CHIP R 0 OHM		
J202-204			R92-0338-05	CLYND CHIP R 0 OHM		
J205			R92-0670-05	CHIP R 0 OHM		
J209			R92-0338-05	CLYND CHIP R 0 OHM		
J210			R92-0670-05	CHIP R 0 OHM		
J305-309			R92-0670-05	CHIP R 0 OHM		
J310 ,311			R92-0338-05	CLYND CHIP R 0 OHM		
J312			R92-0670-05	CHIP R 0 OHM		
J313			R92-0338-05	CLYND CHIP R 0 OHM		
J315			R92-0338-05	CLYND CHIP R 0 OHM		
J316			R92-0670-05	CHIP R 0 OHM		

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R1			RK73FB2A471J	CHIP R 470 J 1/10W		
R3			RK73FB2A473J	CHIP R 47K J 1/10W		
R4			RD14DB2H821J	SMALL-RD 820 J 1/2W		
R5			RD41DB2B394J	CYLND CHIP R 390K J 1/8W		
R6			RD41DB2B132J	CYLND CHIP R 1.3K J 1/8W		
R7			RD41DB2B560J	CYLND CHIP R 56 J 1/8W		
R8			RK73FB2A473J	CHIP R 47K J 1/10W		
R9			RD41DB2B394J	CYLND CHIP R 390K J 1/8W		
R10 , 11			RK73FB2A101J	CHIP R 100 J 1/10W		
R12			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R13 , 14			RD41FB2B223J	CYLND CHIP R 22K J 1/8W		
R15 , 16			RD41FB2B472J	CYLND CHIP R 4.7K J 1/8W		
R17			RD41FB2B183J	CYLND CHIP R 18K J 1/8W		
R18			RD41DB2B333J	CYLND CHIP R 33K J 1/8W		
R19			RK73FB2A100J	CHIP R 10 J 1/10W		
R20			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R21			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R22			RK73FB2A333J	CHIP R 33K J 1/10W		
R23			RD41FB2B103J	CYLND CHIP R 10K J 1/8W		
R24			RD41FB2B223J	CYLND CHIP R 22K J 1/8W		
R25			RK73FB2A333J	CHIP R 33K J 1/10W		
R26			RK73FB2A104J	CHIP R 100K J 1/10W		
R27			RD41FB2B223J	CYLND CHIP R 22K J 1/8W		
R28			RK73FB2A180J	CHIP R 18 J 1/10W		
R29			RK73FB2A331J	CHIP R 330 J 1/10W		
R30			RD41FB2B332J	CYLND CHIP R 3.3K J 1/8W		
R31			RD41DB2B471J	CYLND CHIP R 470 J 1/8W		
R32			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R33			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R35 -37			RK73FB2A473J	CHIP R 47K J 1/10W		
R38			RD41DB2B332J	CYLND CHIP R 3.3K J 1/8W		
R39			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R40			RD41FB2B223J	CYLND CHIP R 22K J 1/8W		
R41			RD41FB2B103J	CYLND CHIP R 10K J 1/8W		
R42			RK73FB2A473J	CHIP R 47K J 1/10W		
R43			RD41FB2B103J	CYLND CHIP R 10K J 1/8W		
R45			RD41FB2B223J	CYLND CHIP R 22K J 1/8W		
R46			RK73FB2A473J	CHIP R 47K J 1/10W		
R47			RD41FB2B472J	CYLND CHIP R 4.7K J 1/8W		
R48			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R49			RD41FB2B472J	CYLND CHIP R 4.7K J 1/8W		
R50			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R51			RD41FB2B472J	CYLND CHIP R 4.7K J 1/8W		
R52			RD41DB2B222J	CYLND CHIP R 2.2K J 1/8W		
R53			RD41FB2B103J	CYLND CHIP R 10K J 1/8W		
R55			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R56			RD41DB2B823J	CYLND CHIP R 82K J 1/8W		
R57			RK73FB2A333J	CHIP R 33K J 1/10W		
R59 , 60			RD41FB2B272J	CYLND CHIP R 2.7K J 1/8W		
R61 , 62			RD41FB2B222J	CYLND CHIP R 2.2K J 1/8W		
R63 , 64			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		
R65 , 66			RD41FB2B332J	CYLND CHIP R 3.3K J 1/8W		
R67 , 68			RD41DB2B332J	CYLND CHIP R 3.3K J 1/8W		
R69 , 70			RD41DB2B681J	CYLND CHIP R 680 J 1/8W		
R71 , 72			RD41FB2B472J	CYLND CHIP R 4.7K J 1/8W		

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
R73 ,74			RD41DB2B332J	CYLND CHIP R 3.3K J 1/8W		
R75			RD41FB2B223J	CYLND CHIP R 22K J 1/8W		
R76			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R77			RK73FB2A471J	CHIP R 470 J 1/10W		
R78			RK73FB2A104J	CHIP R 100K J 1/10W		
R79 ,80			RK73FB2A473J	CHIP R 47K J 1/10W		
R83			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		
R85 ,86			RD41FB2B221J	CYLND CHIP R 220 J 1/8W		
R87			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R88			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R90 ,91			RD41DB2B332J	CYLND CHIP R 3.3K J 1/8W		
R92 ,93			RD41DB2B223J	CYLND CHIP R 22K J 1/8W		
R99			RD41DB2B821J	CYLND CHIP R 820 J 1/8W		
R100			RD14DB2H330J	SMALL-RD 33 J 1/2W		
R102			RD41DB2B100J	CYLND CHIP R 10 J 1/8W		
R103			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R104			RD41DB2B101J	CYLND CHIP R 100 J 1/8W		
R105			RD41DB2B222J	CYLND CHIP R 2.2K J 1/8W		
R200			RD41DB2B222J	CYLND CHIP R 2.2K J 1/8W		
R201			RD41FB2B472J	CYLND CHIP R 4.7K J 1/8W		
R202			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R203			RK73FB2A303J	CHIP R 30K J 1/10W		
R204			RD41FB2B103J	CYLND CHIP R 10K J 1/8W		
R205			RD41FB2B472J	CYLND CHIP R 4.7K J 1/8W		
VR1			R12-0104-05	TRIMMING POT.		
VR2			R12-3096-05	TRIMMING POT.(10K)		
VR3		*	R24-3017-05	POTENTIOMETER(10K)		
D1			S5566B	DIODE		
D1			1SR139-100	DIODE		
D2			DLS1585	DIODE		
D2			RLS-73	DIODE		
D3 ,4			DAN202K	DIODE		
D5 -8			ERA15-01Y1	DIODE		
D10			DA204K	DIODE		
D11			DLS1585	DIODE		
D11			RLS-73	DIODE		
D12			DAP202K	DIODE		
D13			DAN202K	DIODE		
D14			DLS1585	DIODE		
D14			RLS-73	DIODE		
D15			DAP202K	DIODE		
D16			DLS1585	DIODE		
D16			RLS-73	DIODE		
D18			DLS1585	DIODE		
D18			RLS-73	DIODE		
D20			DA204K	DIODE		
D21			RD5.1JS(B2)	ZENER DIODE		
D22			DLS1585	DIODE		
D22			RLS-73	DIODE		
D200,201			DLS1585	DIODE		
D200,201			RLS-73	DIODE		
D204			DLS1585	DIODE		
D204			RLS-73	DIODE		
IC1			BA3708F	IC(MUSIC TRUCK SENSOR)		

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IC2 IC3 Q1 Q2 Q3			LM7001 BA3900-V1 2SD1469F DTC124EK DTC144EK	IC(PLL FREQUENCY SYNTHESIZER) IC(POWER SUPPLY) TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
Q4 Q5 -7 Q8 Q9 Q10			DTA144EK 2SC2412K(S) DTA144EK DTC124EK 2SK669	DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR FET		
Q11 Q12 ,13 Q14 Q15 Q16			2SA1428(Q,Y) 2SD1469F 2SA1037K DTC124EK DTA124EK	TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
Q17 ,18 Q19 -24 Q25 ,26 Q27 Q28 -30			DTC124EK 2SD1757K DTC144EK DTC124EK 2SB822F	DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR		
Q31 Q32 Q100 Q101 Q102			2SB1181F5 2SC2412K(S) DTC124EK 2SB822F DTC124EK	TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR		
Q103,104 Q105			DTA124EK DTC144EK	DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
306	2D		W02-1007-05	TUNER ASSY		
ELECTRIC UNIT (X25-3602-70)						
311 312 D1 -21 LCD PL1 ,2	2D 2C 2C		B11-0801-04 B19-0593-04 B30-1208-05 B38-0504-05 B30-1305-05	OPTICAL DIFFUSER LIGHTING BOARD LED LIQUID CRYSTAL LAMP (5.5V .125A)		
PL3 ,4 PL5 ,6 PL7 ,8 PL9		*	B30-1187-05 B30-1306-05 B30-1204-05 B30-1307-15	LAMP (6V 0.155A) LAMP (5.5V .125A) LAMP LAMP (12V .06A)		
C1 C2			CK73FB1E223K CK73FB1H681K	CHIP C 0.022UF K CHIP C 680PF K		
321	2C		E29-0328-04	CONDUCTIVE RUBBER		
322	2D		F15-0802-04	SHADE		
328	2D	*	J25-6176-13	PRINTED WIRING BOARD		
S	2D		N09-1399-05	TAPTITE SCREW (M2X6 PAN HEAD P TITE)		
J1 -3 R1 -7 R8			R92-0338-05 RD41DB2B331J RK73FB2A513J	CLYND CHIP R 0 OHM CYLND CHIP R 330 J 1/8W CHIP R 51K J 1/10W		
S1 -23			S40-1117-05	PUSH SWITCH		
D24 ,25			ERA15-01Y1	DIODE		

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IC1			LC7582A	IC(LCD DRIVER)		
ELECTRIC UNIT (X25-3642-70)						
C1 ,2			CE04DW1A220M	ELECTRØ 22UF 10WV		
C3 -6			CE04DW1A101M	ELECTRØ 100UF 10WV		
C7			CK73EB1H103K	CHIP C 0.010UF K		
C104			CE04DW1A101M	ELECTRØ 100UF 10WV		
C105,106			CC73FCH1H220J	CHIP C 22PF J		
C107,108			CK73EB1H223K	CHIP C 0.022UF K		
C109-112			CK73EB1H182K	CHIP C 1800PF K		
C113			CE04DW1A101M	ELECTRØ 100UF 10WV		
C114			CE04NW1H0R1M	ELECTRØ 0.1UF 50WV		
C115			CK73EB1E683K	CHIP C 0.068UF K		
C116			CE04NW1V3R3M	ELECTRØ 3.3UF 35WV		
C170			CE04DW1A101M	ELECTRØ 100UF 10WV		
C171-174			CE04DW1H010M	ELECTRØ 1.0UF 50WV		
C175-178			CC73FSL1H221J	CHIP C 220PF J		
C179-182			CE04DW1A220M	ELECTRØ 22UF 10WV		
C183			CE04DW1A101M	ELECTRØ 100UF 10WV		
C184			CE04DW0J471M	ELECTRØ 470UF 6.3WV		
C200,201			CK73EB1H473K	CHIP C 0.047UF K		
V	2D		N30-3006-46	PAN HEAD MACHINE SCREW		
J4 -6			R92-0338-05	CLYND CHIP R 0 ØHM		
J7			R92-0670-05	CHIP R 0 ØHM		
J8			R92-0338-05	CLYND CHIP R 0 ØHM		
J9			R92-0670-05	CHIP R 0 ØHM		
J19 -26			R92-0338-05	CLYND CHIP R 0 ØHM		
J27			R92-0670-05	CHIP R 0 ØHM		
J28 -32			R92-0338-05	CLYND CHIP R 0 ØHM		
J39 ,40			R92-0670-05	CHIP R 0 ØHM		
J103			R92-0338-05	CLYND CHIP R 0 ØHM		
J104			R92-0670-05	CHIP R 0 ØHM		
R1			RD41DB2B101J	CYLND CHIP R 100 J 1/8W		
R2			RK73FB2A104J	CHIP R 100K J 1/10W		
R5			RD41DB2B101J	CYLND CHIP R 100 J 1/8W		
R6			RD41DB2B223J	CYLND CHIP R 22K J 1/8W		
R7 ,8			RD41DB2B182J	CYLND CHIP R 1.8K J 1/8W		
R9 ,10			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R11			RD41DB2B333J	CYLND CHIP R 33K J 1/8W		
R12			RD41DB2B223J	CYLND CHIP R 22K J 1/8W		
R13			RD41DB2B911J	CYLND CHIP R 910 J 1/8W		
R14			RD14DB2H2R2J	SMALL-RD 2.2 J 1/2W		
R108			RK73FB2A470J	CHIP R 47 J 1/10W		
R109,110			RK73FB2A103J	CHIP R 10K J 1/10W		
R111,112			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R113,114			RD41DB2B183J	CYLND CHIP R 18K J 1/8W		
R115,116			RD41DB2B101J	CYLND CHIP R 100 J 1/8W		
R117,118			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R119,120			RD41DB2B183J	CYLND CHIP R 18K J 1/8W		
R121,122			RD41FB2B103J	CYLND CHIP R 10K J 1/8W		
R126			RD41DB2B332J	CYLND CHIP R 3.3K J 1/8W		
R127			RD14DB2H102J	SMALL-RD 1.0K J 1/2W		
R128			RD14DB2H561J	SMALL-RD 560 J 1/2W		
R129-131			RD41DB2B223J	CYLND CHIP R 22K J 1/8W		

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R132 R133-138 R159,160 R161-164 R165-168			RD41DB2B472J RD41DB2B101J RK73FB2A101J RD41FB2B473J RD41FB2B163J	CYLND CHIP R 4.7K J 1/8W CYLND CHIP R 100 J 1/8W CHIP R 100 J 1/10W CYLND CHIP R 47K J 1/8W CYLND CHIP R 16K J 1/8W		
R169-172 R173-175 R176 R177-180 R181			RD41FB2B911J RD41FB2B181J RD41DB2B181J RD41FB2B122J RD41FB2B103J	CYLND CHIP R 910 J 1/8W CYLND CHIP R 180 J 1/8W CYLND CHIP R 180 J 1/8W CYLND CHIP R 1.2K J 1/8W CYLND CHIP R 10K J 1/8W		
R182 R200,201 R204 R205 VR7 ,8			RK73FB2A103J RK73FB2A104J RK73FB2A104J RD41DB2B104J R10-4033-15	CHIP R 10K J 1/10W CHIP R 100K J 1/10W CHIP R 100K J 1/10W CYLND CHIP R 100K J 1/8W POTENTIOMETER(50KB)		
D1 ,2 D1 ,2 D3 D4 D10			DLS1585 RLS-73 1SS101 HZS11LB2 DSM1A1	DIODE DIODE DIODE ZENER DIODE DIODE		
D10 D11 D11 D12 D12			S5566B DLS1585 RLS-73 DSM1A1 S5566B	DIODE DIODE DIODE DIODE DIODE		
D13 D13 D14 D14 D16			DLS1585 RLS-73 DSM1A1 S5566B DLS1585	DIODE DIODE DIODE DIODE DIODE		
D16 IC2 ,3 IC4 IC5 IC6			RLS-73 UPC4570G2 * NJM5532MD * TC74HC04AF UPD4066BG	DIODE IC(OP AMP X2) IC IC IC(BILATERAL SWITCH X4)		
IC10 Q1 ,2 Q3 Q4 Q17			KC-855 DTC124EK 2SC2412K 2SB941 2SA1037K	IC(ISOLATION AMP) DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q18 Q19 Q20 Q22			2SC2412K 2SA1037K 2SA1428 DTA124EK	TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR		
TUNER UNIT (X86-1142-70)						
C1 C2 C3 -6 C7 C8			CK73FB1E103K CC73FCH1H560J C93-0026-05 CK73FB1E103K C92-0016-05	CHIP C 0.010UF K CHIP C 56PF J CHIP C 0.068UF 50WV CHIP C 0.010UF K TANTAL 10UF M		
C9 C10 C11 C12 ,13			CK73EB1E104K C92-0009-05 CK73DB1H154K CF92V1H683J	CHIP C 0.10UF K CHIP TAN 4.7UF 10WV CHIP C 0.15UF K MF 0.068UF J		

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R1 ,2 R3 R4 R5 R6			RK73FB2A104J RK73FB2A101J RK73FB2A123J RK73FB2A333J RK73FB2A244J	CHIP R 100K J 1/10W CHIP R 100 J 1/10W CHIP R 12K J 1/10W CHIP R 33K J 1/10W CHIP R 240K J 1/10W		
R7 R8 R9 R10 R11			RK73FB2A273J RK73FB2A564J RK73FB2A683J RK73FB2A182J RK73FB2A473J	CHIP R 27K J 1/10W CHIP R 560K J 1/10W CHIP R 68K J 1/10W CHIP R 1.8K J 1/10W CHIP R 47K J 1/10W		
R12 R13 R14 R15			RK73FB2A431J RK73FB2A684J RK73FB2A224J RK73FB2A563J	CHIP R 430 J 1/10W CHIP R 680K J 1/10W CHIP R 220K J 1/10W CHIP R 56K J 1/10W		
IC1 IC2			AN6556S TDA1579T	IC(OP AMP X2) IC(DECODER)		
FRONT-END UNIT (X86-1162-70)						
C1 -3 C4 C5 C6 C7			CK73FB1E223K CK73FB1H331K CK73FB1H102K CK73FB1H332K CK73FB1E223K	CHIP C 0.022UF K CHIP C 330PF K CHIP C 1000PF K CHIP C 3300PF K CHIP C 0.022UF K		
C8 C9 C10 C11 C12			CE04DW1A101M CK73FB1E223K CE04DW1H010M CE04DW1E4R7M CE04DW1HR47M	ELECTRO 100UF 10WV CHIP C 0.022UF K ELECTRO 1.0UF 50WV ELECTRO 4.7UF 25WV ELECTRO 0.47UF 50WV		
C13 C14 C15 C16 C17			CK73FB1E223K CE04DW1HR47M CE04DW1HR33M CC73FSL1H271J CK73FB1H103K	CHIP C 0.022UF K ELECTRO 0.47UF 50WV ELECTRO 0.33UF 50WV CHIP C 270PF J CHIP C 0.010UF K		
C18 C19 C20 C21 C22			CE04DW1E4R7M CK73FB1H103K CE04DW1E4R7M CE04DW1A101M CE04DW1H2R2M	ELECTRO 4.7UF 25WV CHIP C 0.010UF K ELECTRO 4.7UF 25WV ELECTRO 100UF 10WV ELECTRO 2.2UF 50WV		
C23 ,24 C25 ,26 C27 ,28 C29 ,30 C31 ,32			CC73FSL1H821J CE04DW1A101M CK73FB1H822K CE04DW1C100M CE04DW1E4R7M	CHIP C 820PF J ELECTRO 100UF 10WV CHIP C 8200PF K ELECTRO 10UF 16WV ELECTRO 4.7UF 25WV		
C33 ,34 C35 ,36 C37			CK73FB1E183K CE04DW1A101M CE04DW1A470M	CHIP C 0.018UF K ELECTRO 100UF 10WV ELECTRO 47UF 10WV		
CF1 ,2 L1 L2			L72-0524-05 L40-4791-17 L30-0462-15	CERAMIC FILTER SMALL FIXED INDUCTOR(4.7UH,K) FM IFT		
J1 -6 J31 -36 J206 R1 R2			R92-0338-05 R92-0670-05 R92-0338-05 RK73FB2A561J RK73FB2A222J	CLYND CHIP R 0 OHM CHIP R 0 OHM CLYND CHIP R 0 OHM CHIP R 560 J 1/10W CHIP R 2.2K J 1/10W		

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R3			RK73FB2A161J	CHIP R 160 J 1/10W		
R4			RK73FB2A151J	CHIP R 150 J 1/10W		
R5			RK73FB2A471J	CHIP R 470 J 1/10W		
R6			RK73FB2A103J	CHIP R 10K J 1/10W		
R7			RK73FB2A393J	CHIP R 39K J 1/10W		
R8			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R9			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R10			RK73FB2A114J	CHIP R 110K J 1/10W		
R11			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R12			RK73FB2A103J	CHIP R 10K J 1/10W		
R13			RK73FB2A123J	CHIP R 12K J 1/10W		
R14			RK73FB2A103J	CHIP R 10K J 1/10W		
R15			RK73FB2A473J	CHIP R 47K J 1/10W		
R17			RK73FB2A103J	CHIP R 10K J 1/10W		
R18			RK73FB2A184J	CHIP R 180K J 1/10W		
R20			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R21			RK73FB2A103J	CHIP R 10K J 1/10W		
R22			RK73FB2A101J	CHIP R 100 J 1/10W		
R23			RK73FB2A100J	CHIP R 10 J 1/10W		
R24			RD41FB2B223J	CYLND CHIP R 22K J 1/8W		
R25 , 26			RD41FB2B393J	CYLND CHIP R 39K J 1/8W		
R27 , 28			RD41FB2B151J	CYLND CHIP R 150 J 1/8W		
R29 , 30			RD41FB2B163J	CYLND CHIP R 16K J 1/8W		
R31 , 32			RD41FB2B334J	CYLND CHIP R 330K J 1/8W		
R33 , 34			RD41FB2B332J	CYLND CHIP R 3.3K J 1/8W		
R35 , 36			RD41FB2B473J	CYLND CHIP R 47K J 1/8W		
R37 , 38			RD41FB2B392J	CYLND CHIP R 3.9K J 1/8W		
R39 , 40			RK73FB2A123J	CHIP R 12K J 1/10W		
R41 , 42			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R43			RD41DB2B101J	CYLND CHIP R 100 J 1/8W		
R44 , 45			RD41FB2B223J	CYLND CHIP R 22K J 1/8W		
VR1			R12-3072-05	TRIMMING POT.(22K)		
VR2			R12-3100-05	TRIMMING POT.(10K)		
VR3			R12-3103-05	TRIMMING POT.(47K)		
VR4			R12-1063-05	TRIMMING POT.(2.2K)		
VR5 , 6			R12-3100-05	TRIMMING POT.(10K)		
IC1			IF3S201B	IC(FM IF AMP/ DET)		
IC2			EHD-DP1310	IC		
IC3			UPC4570G2	IC(OP AMP X2)		
Q1			2SC2413K	TRANSISTOR		
Q2 , 3			2SC2412K	TRANSISTOR		
Q5			2SC2412K	TRANSISTOR		
Q6			DTC124EK	DIGITAL TRANSISTOR		
Q7 , 8			2SC2412K	TRANSISTOR		
Q9 , 10			2SD1757K	TRANSISTOR		
DOLBY NOISE REDUCTION UNIT (X87-1352-70)						
C1 -4			C93-0021-05	CERAMIC 2200PF J		
C5 , 6			C93-0022-05	CERAMIC 3900PF J		
C9 , 10			C93-0025-05	CERAMIC 0.22UF K		
C11 , 12			C93-0024-05	CERAMIC 0.15UF K		
C13 , 14			CK73FB1E153K	CHIP C 0.015UF K		
C17 , 18			C93-0025-05	CERAMIC 0.22UF K		
C19 , 20			CK73EB1E104K	CHIP C 0.10UF K		
C21 , 22			CK73EB1E563K	CHIP C 0.056UF K		

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C23 ,24 C25 ,26			C93-0023-05 CK73FB1E103K	CERAMIC 5600PF J CHIP C 0.010UF K		
R1 -4 R5 ,6 R7 R8 ,9 R10 ,11			RD41FB2B223J RD41FB2B202J RD41FB2B134J RD41FB2B183J RD41FB2B102J	CYLND CHIP R 22K J 1/8W CYLND CHIP R 2.0K J 1/8W CYLND CHIP R 130K J 1/8W CYLND CHIP R 18K J 1/8W CYLND CHIP R 1.0K J 1/8W		
R12 ,13 R14 ,15 R16 ,17 R18 ,19 R20 ,21			RD41FB2B183J RD41FB2B332J RD41FB2B392J RD41FB2B105J RD41FB2B223J	CYLND CHIP R 18K J 1/8W CYLND CHIP R 3.3K J 1/8W CYLND CHIP R 3.9K J 1/8W CYLND CHIP R 1.0M J 1/8W CYLND CHIP R 22K J 1/8W		
R22 ,23 R24 ,25 R26 ,27 R28 ,29			RD41FB2B561J RD41FB2B752J RD41FB2B681J RD41FB2B912J	CYLND CHIP R 560 J 1/8W CYLND CHIP R 7.5K J 1/8W CYLND CHIP R 680 J 1/8W CYLND CHIP R 9.1K J 1/8W		
IC1			CXA1098Q	IC(DOLBY B/C)		
DIGITAL I/O UNIT (X88-1032-70)						
C1 C2 ,3 C6 C7 C8			CK73FB1E223K CK73FB1E103K C92-0012-05 C92-0005-05 C92-0009-05	CHIP C 0.022UF K CHIP C 0.010UF K TANTAL 22UF 6.3WV CHIP-TAN 2.2UF 6.3WV CHIP TAN 4.7UF 10WV		
C10 C11 ,12 C14 C15 C16		*	C92-0009-05 CK73FB1E103K C92-0004-05 C92-0015-05 CK73EB1E104K	CHIP TAN 4.7UF 10WV CHIP C 0.010UF K CHIP TAN 1UF 16WV TANTALUM CAPACITOR CHIP C 0.10UF K		
C17 ,18 C19 ,20 C21 ,22			CC73FCH1H100D CK73FB1E103K CK73FB1E223K	CHIP C 10PF D CHIP C 0.010UF K CHIP C 0.022UF K		
J1 ,2 J4 J6 ,7 J10 J20 -22			R92-0338-05 R92-0338-05 R92-0670-05 R92-0338-05 R92-0338-05	CLYND CHIP R 0 0HM CLYND CHIP R 0 0HM CHIP R 0 0HM CLYND CHIP R 0 0HM CLYND CHIP R 0 0HM		
R1 ,2 R3 R4 R5 R6 -13			RK73FB2A103J RK73FB2A223J RK73FB2A473J RK73FB2A103J RK73FB2A102J	CHIP R 10K J 1/10W CHIP R 22K J 1/10W CHIP R 47K J 1/10W CHIP R 10K J 1/10W CHIP R 1.0K J 1/10W		
R14 -17 R19 -21 R22 R23 R24 ,25			RK73FB2A474J RK73FB2A103J RK73FB2A473J RK73FB2A104J RK73FB2A223J	CHIP R 470K J 1/10W CHIP R 10K J 1/10W CHIP R 47K J 1/10W CHIP R 100K J 1/10W CHIP R 22K J 1/10W		
R26 ,27 R28 R30 R31 -33 R34			RK73FB2A473J RK73FB2A472J RK73FB2A103J RK73FB2A473J RK73FB2A103J	CHIP R 47K J 1/10W CHIP R 4.7K J 1/10W CHIP R 10K J 1/10W CHIP R 47K J 1/10W CHIP R 10K J 1/10W		
R35 -37 R38			RK73FB2A473J RK73FB2A104J	CHIP R 47K J 1/10W CHIP R 100K J 1/10W		

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PARTS LIST

* New Parts

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R39			RK73FB2A103J	CHIP R 10K J 1/10W		
R40 ,41			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R42			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R43			RK73FB2A103J	CHIP R 10K J 1/10W		
R44			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R46			RK73FB2A563J	CHIP R 56K J 1/10W		
R47			RK73FB2A473J	CHIP R 47K J 1/10W		
R48			RK73FB2A182J	CHIP R 1.8K J 1/10W		
R49 ,50			RD41DB2B332J	CYLND CHIP R 3.3K J 1/8W		
R51			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R53 ,54			RK73FB2A103J	CHIP R 10K J 1/10W		
R55			RK73FB2A223J	CHIP R 22K J 1/10W		
R56			RK73FB2A103J	CHIP R 10K J 1/10W		
R57 ,58			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R59			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R60 -62			RK73FB2A473J	CHIP R 47K J 1/10W		
R63 ,64			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R65			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		
R66			RK73FB2A103J	CHIP R 10K J 1/10W		
R67 -69			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R70			RK73FB2A333J	CHIP R 33K J 1/10W		
R71 -73			RK73FB2A473J	CHIP R 47K J 1/10W		
R74 -76			RK73FB2A103J	CHIP R 10K J 1/10W		
R77			RK73FB2A474J	CHIP R 470K J 1/10W		
R78			RK73FB2A471J	CHIP R 470 J 1/10W		
R79 -82			RK73FB2A104J	CHIP R 100K J 1/10W		
R83			RK73FB2A684J	CHIP R 680K J 1/10W		
R84			RK73FB2A103J	CHIP R 10K J 1/10W		
R85			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R86			RK73FB2A473J	CHIP R 47K J 1/10W		
R88			RK73FB2A104J	CHIP R 100K J 1/10W		
R89			RK73FB2A473J	CHIP R 47K J 1/10W		
R90			RK73FB2A103J	CHIP R 10K J 1/10W		
R91			RK73FB2A182J	CHIP R 1.8K J 1/10W		
R92			RK73FB2A514J	CHIP R 510K J 1/10W		
R93 ,94			RK73FB2A103J	CHIP R 10K J 1/10W		
R96 ,97			RK73FB2A103J	CHIP R 10K J 1/10W		
R98			RK73FB2A104J	CHIP R 100K J 1/10W		
R99 ,100			RK73FB2A473J	CHIP R 47K J 1/10W		
R102			RK73FB2A103J	CHIP R 10K J 1/10W		
R105-108			RK73FB2A473J	CHIP R 47K J 1/10W		
R109			RK73FB2A103J	CHIP R 10K J 1/10W		
R111-115			RK73FB2A103J	CHIP R 10K J 1/10W		
D1 -16			DLS1585	DIODE		
D1 -16			RLS-73	DIODE		
D18 ,19			DLS1585	DIODE		
D18 ,19			RLS-73	DIODE		
D25 -38			DLS1585	DIODE		
D25 -38			RLS-73	DIODE		
D41			DLS1585	DIODE		
D41			RLS-73	DIODE		
D45 -56			DLS1585	DIODE		
D45 -56			RLS-73	DIODE		
IC1		*	75108G-E68-1B	IC(MICROPROCESSOR)		

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IC2 IC2 IC2 IC3 ,4 IC3 ,4			BU4069UBF TC4069UBF UPD4069UBG BU4081BF UPD4081BG-T1	IC(INVERTER X6) IC(INVERTER X6) IC(INVERTER X6) IC IC(AND X4)		
IC5 IC5 IC5 Q1 Q2			BU4001BF TC4001BF UPD4001BG-T1 DTA144EK DTC124EK	IC(2-INPUT NOR GATE) IC(NOR X6) IC(NOR X4) DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
Q3 Q4 Q5 Q6 Q7			2SA1037K DTC124EK 2SA1037K DTA144EK 2SA1037K	TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR		
Q11 Q12 Q13 Q14 Q18			DTC124EK 2SA1037K DTC144WK DTC124EK 2SC2412K	DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR		
Q19 -21 Q22 -28 Q29 Q30 ,31 Q32			DTC124EK DTA144EK 2SA1036K DTC124EK DTC143TK	DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
Q34 Q35 Q36 Q37 Q38			2SC2412K 2SA1037K DTC143TK DTA114EK DTC144WK	TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
Q39 ,40			DTA144EK	DIGITAL TRANSISTOR		
TUNER ASS'Y (W02-1007-05)						
D1 D2 D2 D3 ,4 D5			SVC212 HVM14S 1SV172 SVC212 HVM14S	DIODE DIODE DIODE DIODE DIODE		
D5 D6 D6 D7 ,8 D7 ,8			1SV172 1SS110 1SS53 SVC321 1SV149	DIODE DIODE DIODE DIODE DIODE		
D9 -11 D9 -11 D12 D12 FET2			1SS110 1SS53 SVC321 1SV149 2SK163	DIODE DIODE DIODE DIODE FET		
FET2 IC1 IC2 Q2 Q3 ,5			2SK494 TA8116F LA1135 DTC114 2SC2620	FET IC IC(AM) DIGITAL TRANSISTOR TRANSISTOR		
Q3 ,5 Q100			2SC2814 3SK126	TRANSISTOR FET		

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Q101 Q101 TR1 TR1 TR2 TR2			2SK184 2SK209 2SC2462 2SC2714 2SC2668 2SC2996	FET FET TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
SCREW SET (N99-0280-05)						
-			J31-0256-15	COLLAR		
-			N09-0366-05	SCREW		
-			N14-0156-05	NUT		
CASSETTE MECHANISM UNIT (D40-0853-05)						
4	3A		D03-0249-08	REEL DISK ASSY		
5	3B		D10-1587-08	LEVER ASSY (FR ARM)		
6	1A		D10-1588-08	LEVER ASSY (PR ARM,F)		
7	1B		D10-1589-08	LEVER ASSY (PR ARM,R)		
8	3A		D10-1590-18	LEVER ASSY (POWER ARM)		
9	2A		D10-1591-08	LEVER ASSY (MODE PLATE)		
10	1B		D10-1606-08	LEVER ASSY (SELECT ARM)		
11	1B		D10-1691-08	LEVER ASSY (POWER PLATE)		
12	1B		D10-1608-08	LEVER ASSY (CHIP ARM)		
13	2A		D10-1592-08	LEVER ASSY (T CRANK)		
14	2B		D10-1593-08	LEVER ASSY (TIMING ARM)		
15	1A		D10-1594-08	ARM (HOUSING ARM)		
16	3A		D13-0322-08	GEAR ASSY (REEL PUSH)		
17	3B		D13-0321-08	GEAR ASSY (FF)		
18	2B		D13-0323-08	GEAR ASSY (RVS)		
19	2B		D13-0324-08	GEAR ASSY (EJECT)		
20	3B		D01-0083-08	FLYWHEEL ASSY		
21	3A		D15-0240-08	PULLEY ASSY (TENSION PULLEY)		
22	3B		D10-1690-08	ARM		
25	2B		D10-1595-08	LEVER (RVS)		
26	2A		D10-1596-08	LEVER (FF)		
27	2A		D10-1597-08	LEVER (BRAKE PLATE,F)		
28	2B		D10-1598-08	LEVER (BRAKE PLATE,R)		
29	2A		J19-2620-08	BRACKET (PLUNGER,A)		
30	2B		J19-2621-08	BRACKET (PLUNGER,B)		
31	2B		D10-1609-08	ARM (TRIGGER PLATE)		
32	3B		D10-1689-08	ARM (RVS TRIGGER)		
33	2B		D10-1611-08	LEVER (EJECT)		
34	2B		D10-1612-08	LEVER ASSY (RESET)		
35	1B		J19-2624-08	BRACKET		
36	1B		D10-1688-08	ARM (ADJUSTER)		
37	1A		G02-0383-08	FLAT SPRING		
38	1A		J19-2622-08	HOLDER (CASSETTE HOUSING)		
39	3B		D10-1600-08	ARM (GEAR SHAFT GUIDE)		
40	1A		J19-2876-08	BRACKET (TRO)		
41	1A		D10-1601-08	ARM		
42	2B		D10-1613-08	LEVER (SLIDE)		
43	2A		D10-1602-08	SLIDER (PLUNGER BUFFER)		
45	2A		D10-1603-08	ARM (FF CRANK)		
46	1B		D10-1604-08	ARM (AZIMUTH)		
47	1B		D14-0137-08	ROLLER (H/P,C)		
48	1A		J90-0162-08	GUIDE		

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49	1A		D14-0138-08	ROLLER (H/A)		
50	3A, 3B		D13-0318-08	GEAR (IDLER)		
51	3A		B09-0056-08	CAP (REEL DRIVER)		
52	3A		D13-0319-08	GEAR (φ15.2)		
53	3B		D13-0320-08	GEAR (INPUT)		
54	2B		D13-0325-08	GEAR (A)		
55	3B		D13-0326-08	GEAR (B)		
56	3B		D13-0327-08	GEAR (C)		
57	3B		D13-0328-18	GEAR (MODE)		
59	2A		J32-0320-08	STUD		
60	2A		D14-0139-08	ROLLER (TIMING/A)		
62	2A		D14-0140-08	ROLLER (H/P ROLLER, A)		
63	2A		D14-0141-08	ROLLER (H/P ROLLER, B)		
64	2B		D14-0142-08	ROLLER (MODE)		
65	2B		J30-0214-08	SPACER		
67	1A, 1B		N09-1583-08	SCREW		
69	3B		G01-1860-08	TENSION		
70	1A		G01-1794-08	TORSION SP (PR ARM, F)		
71	1B		G01-1795-08	TORSION SP (PR ARM, R)		
72	1A		G01-1796-08	TENSION (H/P)		
73	2B		G01-1797-08	TENSION (IDLER)		
74	3A		G01-1798-08	TORSION SP (FF ARM)		
75	2A, 2B		G01-1799-08	TENSION (BRAKE)		
76	2B		G01-1805-08	TORSION SP (TRIGGER)		
77	3B		G01-1806-08	TENSION (RVS/T)		
78	1B		G01-1807-08	TENSION (CHIP ARM)		
79	2B		G01-1808-08	TENSION (STARTER)		
80	2B		G01-1809-08	TENSION (EJ/P)		
81	2B		G01-1810-08	TENSION (RESET/P)		
82	3A		G01-1793-08	COMPRESSION (SLEEVE)		
83	1B		G01-1800-08	COMPRESSION (AZIMUTH LOCK)		
84	2A		G01-1801-08	TENSION (POWER)		
85	2B		G01-1802-08	TORSION SP (TIMING ARM)		
86	1A		G01-1803-08	TORSION SP (REVERSE)		
87	1B		G01-1823-08	TENSION		
88	2A		G01-1804-08	TENSION (BUFFER)		
89	2A		G11-1145-08	CUSHION (CH)		
90	3B		D16-0127-08	BELT		
91	1A		D10-1605-08	ROD (OVER CENTER ROD)		
92	1B		N09-1584-08	SCREW (AZIMUTH)		
93	2A		J30-0213-08	SPACER (T)		
96	1A		T31-0032-08	PLAYBACK HEAD		
103	1B, 2B		T94-0213-08	SOLENOID		
104	2A		T94-0092-08	SOLENOID		
105	2A		T94-0093-08	SOLENOID		
110	1B		N09-1585-08	SCREW (M1.7X7)		
111	2A		N09-1586-08	SCREW (M2X5.5)		
112	3A, 1B		N09-1587-08	SCREW (M2X3)		
113	2B		N09-1588-08	SCREW (M2X5)		
115	1A, 2A		N09-1589-08	SCREW (M2X4)		
116	2B		N09-1590-08	SCREW (M2X5)		
120	2A, 3B		N24-3012-41	E RING (φ1.2)		
121	2A, 2B		N24-3015-41	E RING (φ1.5)		
122	2A, 2B		N29-0097-08	E RING (1.6X3.5)		
123	1A		N24-3025-41	E RING (φ2.5)		

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124	3A		N24-3030-41	E RING (φ3)		
130	3A, 3B		N19-0374-05	FLAT WASHER (φ1.2X3X0.25)		
131	3A, 3B		N19-0375-05	FLAT WASHER (φ1.6X3.2X0.25)		
132	3B		N19-1987-08	FLAT WASHER (φ1.6X3.2X0.5)		
133	2A, 2B		N19-0988-08	FLAT WASHER (φ2.1X3.5X0.25)		
134	3B		N19-0989-08	FLAT WASHER (φ2.1X4X0.25)		
135	3A		N19-0990-08	FLAT WASHER (φ2.1X4X0.25)		
136	2A		N19-1103-08	FLAT WASHER (φ2.1X4X0.5)		
137	3B		N19-1102-08	FLAT WASHER (φ2.1X3.5X0.4)		
138	3A		N19-1104-08	FLAT WASHER (φ2.1X3.5X0.4)		
143	3A		J25-5727-08	PRINTED WIRING BOARD		
146	1A, 1B		J31-0813-08	COLLAR		
147	1A		D14-0287-08	ROLLER		
150	3A		D03-0263-08	REEL DISK ASSY		
151	1B		J25-7020-08	PRINTED WIRING BOARD ASSY		
152	2B		A11-0191-18	SUB CHASSIS ASSY		
153	1B		G01-2384-08	TORSION SP		
M1	1A		T43-0492-08	DC MOTOR ASSY		
-			J61-0077-08	WIRE BAND		
-			J61-0082-08	WIRE BAND		
A	2A, 2B		N35-2603-46	BINDING HD MACHINE SCREW		
R2	1B		RD14BB2C121J	RD 120 J 1/6W		
S1	1B		S46-1078-08	LEAF SWITCH (MLS-4)		
S2	1B		S31-4020-08	SLIDE SWITCH (HEAD)		
S3	1B		S46-1077-08	LEAF SWITCH		

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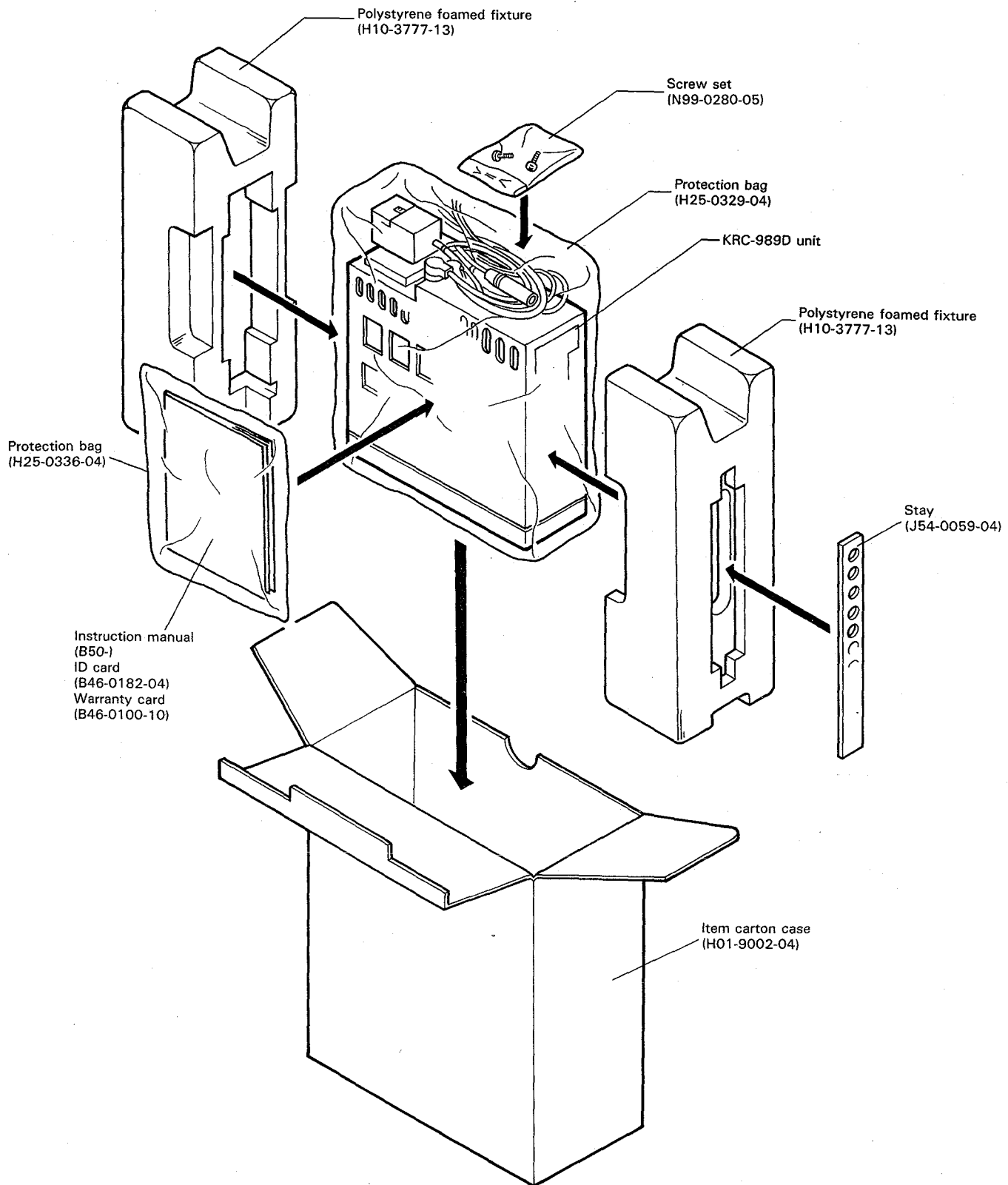
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PACKING



* Refer to parts list on page 45.